



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



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**T11-2020-00100-v000**

**Approved Minutes  
INCITS Fibre Channel (T11) Technical Committee  
Regular Meeting #157  
06 February 2020 – 1 PM to 4 PM CST  
Fort Worth, TX**

## **1 Opening Remarks and Introductions**

### **1.1 Introductory Remarks**

TC T11 chair Steve Wilson (Broadcom) convened regular meeting #157 of the INCITS Fibre Channel (T11) Technical Committee on Thursday, 06 February 2020 at 1:02 PM CST. He introduced himself and thanked our host DCS for the meeting facilities and amenities.

He next introduced Craig Carlson (Marvell) as vice chair and Patty Driever (IBM) as secretary.

### **1.2 Self-introductions**

The chair requested those present to introduce themselves, with identification of the organizations they represent.

### **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 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 T11-2020-00001-v001. The chair presented the agenda with final updates as T11-2020-00001-v002 and made a call for any changes and new agenda items. No changes or new items were requested.

Greg McSorley (Amphenol) moved and Alan Rajapa (Dell) seconded that T11-2020-00001-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:

- Urmi Misra was removed as Alternate for NetApp Inc.. Other representation for NetApp remains the same.
- Amit Bakshi and Rakesh Kathiresan Natarajan were added as Alternates for Teledyne

LeCroy Corp. Other representation for Teledyne LeCroy remains the same.

- Jay Neer was removed as an Alternate for Molex, Inc. All other representation for Molex remains the same.
- Peter Pondillo and Doug Coleman were removed as Alternates for Corning, Inc.
- Microsoft Corporation was removed from the Advisory Membership list.
- Hitachi Ventara was removed from the Advisory Membership list.

### 3.3 New Voting Memberships

- No new voting memberships were granted at this meeting.

### 3.4 Voting memberships in jeopardy for attendance

- DCS** was in jeopardy for non-attendance but is present at this meeting so retains voting membership.
- OFS** was in jeopardy for non-attendance but is present at this meeting so retains voting membership.
- Teledyne-LeCroy** was in jeopardy for non-attendance but is present at this meeting so retains voting membership.
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Notification of membership jeopardy by T11 Chair was sent via email on December 12, 2019 (T11-2019-00383-v000).

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

- No member is in jeopardy for non-payment of dues for this meeting cycle.

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

- Macom is in jeopardy for letter ballot performance for not having voted on two of last 3 T11 letter ballots.

### 3.7 Membership for this meeting

Technical Committee T11 had 18 voting members at the T11 regular meeting 05 December 2019. With no changes in voting membership, the voting membership of T11 remains at 18 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 membership for this meeting is 18. One third of the total membership for this meeting is 7. The number of member organizations that responded to the call for quorum was 17. This exceeds or equals one third of the total membership for this meeting and also exceeds or equals 7. A quorum is therefore present for this meeting.

### 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 #156

The prior regular meeting of the INCITS Fibre Channel (T11) Technical Committee was #156 on 05 December 2019. The draft Minutes of that meeting were posted as document T11/2019-00373-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) or at the subsequent meeting in person.

Chris Lyon (Amphenol) moved and Alan Rajapa (Dell) seconded to accept T11/2019-00373-v000 as the Minutes of T11 meeting #156 on 05 December 2019. The motion passed by acclamation.

See action item [20-001](#).

## 6 Review of Old Action Items

19-024	T11 secretary to post approved Minutes of T11 meeting #155 as agreed at T11 meeting #156. (See <a href="#">clause 5</a> ). Completed by posting <a href="#">T11-2019-00380-v000</a> on December 15, 2019.
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19-025	T11 chair to request INCITS Secretariat initiate a first public review on the FC-NVMe-2 draft standard Rev. 1.08 contained in <a href="#">T11-2019-00210-v004</a> . Completed by email to Rachel Porter on 11 December 2019 ( <a href="#">T11-2019-00373-v000</a> ).
19-026	T11 chair to update T11 meeting schedule to reflect changes noted at this meeting. Completed by Steven Wilson posting 2020-2021 meeting schedule on 06 January 2020.

## 7 Review of T11 Project and Proposal Status

### 7.1 Project Proposals

#### 7.1.1 None

### 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 None.

## 9 Old Business

No old business was reopened.

## 10 Task Group T11.2 - Physical Interfaces

### 10.1 Report to T11 Plenary ([T11-2020-00056-v000](#))

Task Group chair Tom Palkert (Macom) gave the report posted as T11-2020-00056-v000 on activity at T11.2.

## **10.2 Actions**

**10.2.1** Tom Palkert made a request to T11 to initiate an RFC ballot on the FC-PI-7P draft standard Rev. 1.00 contained in [T11-2020-00003-v001](#). See action item [20-002](#).

## **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 ([T11-2020-00057-v000](#))**

Task Group chair Craig Carlson (Marvell) presented the information posted as T11-2020-00057-v000 on activity at T11.3.

## **11.2 Actions**

**11.2.1** No actions were brought forward during this meeting cycle for TG T11.3.

## **11.3 Other Items**

No other items were presented for TG T11.3.

### **12 Joint TG T11.2 / T11.3 Items ([T11-2020-00039-v001](#))**

Chair indicated that the joint Task Group meeting report has been posted as T11-2020-00039-v001 on activity at the joint T11.2/T11.3 working group. We did not review it explicitly as it was reviewed in the earlier T11.2 and T11.3 plenary meetings.

## **13 T11 project activities**



None for this meeting cycle.

## **14 Review of International Activity**

### **14.1 INCITS SC 25 / WG4 TAG Status Report ([T11-2020-00010-v000](#))**

Dave Peterson (Broadcom) presented the information posted as T11-2020-00010-v000 on INCITS SC 25 / WG4 TAG project status (see [annex B.2](#)).

## **15 T11 New Business**

### **15.1 National Maintenance Preview ([eb-2020-00014-001](#))**

Chair Steve Wilson showed the report for the 2020 recommendations regarding the five year maintenance of INCITS standards. He indicated we will discuss this more at the next plenary meeting.

## **16 Call for Patents**

### **16.1 Patent information registry**

The chair indicated that the current record of responses to prior calls for patents can be found in the T11 web site at <http://www.t11.org/t11/docreg.nsf/v2t?openForm&ent=35>.

### **16.2 Call for Patents**

#### **16.2.1 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 T11-2010-008v0.

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

A template form for a patent declaration that is satisfactory to both INCITS and ISO can be found in <http://www.incits.org/standards-information/legal-info>.

No company responded to the call for patents.

## **17 Liaison Reports**

### **17.1 T11 report ([T11-2019-00384-v000](#)), INCITS Liaison report ([T11-2020-00019-v000](#))**

Steve Wilson (Broadcom) presented the information posted as T11-2019-00384-v000 on activity at T11 as reported to other organizations, and the information posted as T11-2020-00019-v000 on activity at INCITS other than T11 project status.

### **17.2 TC T10 (no document)**

Dave Peterson (Broadcom) gave a verbal report on activity at T10.

### **17.3 FCIA ([T11-2020-00050-v000](#))**

Chris Lyon (Amphenol) gave report T11-2020-00050-v000 on activity at FCIA.

### **17.4 IEEE 802.3 ([T11-2020-00049-v000](#))**

Tom Palkert gave report T11-2020-00049-v000 on activity at IEEE 802.3

### **17.5 INCITS TC CS1 ([SC27-N20131\\_Text\\_f\\_NWIP\\_27040](#), [SC27-WG4\\_N3792\\_PD-270400](#))**

Chair Steve Wilson gave a verbal update on this security workgroup. Eric Hibbard attended the last SNIA and talked with Steve about some things going on in the international security committee. They are looking to take current items listed in the WG4 document above that are treated as recommendations and turning them into requirements. The New Work Proposal (NWIP) document has an annex and a clause (6.5.1) for Fibre Channel that contains the current recommendations. Steve encouraged others to read the documents to understand what it might mean for businesses if this becomes in effect in international standards.

### **17.6 SNIA and DMTF ([T11-2020-00048-v000](#))**

Fred Knight (NetApp) discussed report T11-2020-00048-v000 on SNIA and DMTF 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 Amphenol and Chris Lyon in Deerfield, TX, 06-09 April 2020.

### 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 2020–2021 meeting schedule

The chair announced the following schedule for 2020-2021.

<b>Date</b>	<b>Location</b>	<b>Host Organization</b>	<b>Host Person</b>
February 3-7, 2020	Fort Worth, TX	DCS	Todd Wheeler
April 6-10, 2020	Deerfield Beach, FL	Amphenol	Chris Lyon
June 1-5, 2020	Duluth, MN	Marvell	Craig Carlson
August 10-14, 2020	Santa Fe, NM	Broadcom	Steve Wilson
October 5-9, 2020	Hilton Head Island, SC	SNIA/SFF	Greg McSorley
December 7-11, 2020	Tucson, AZ	FCIA	Chris Lyon
February 1-5, 2021			
April 5-9, 2021			
June 7-12, 2021			
August 9-13, 2021			
October 4-8, 2021			
December 6-10, 2021			

#### **19.4 Approval of Meeting Venues**

No new venues to approve at this meeting.

#### **19.5 Next meeting information**

The chair reminded the membership that the next T11 plenary week is hosted by Amphenol and Chris Lyon in Deerfield Beach, FL, April 06-09, 2020. He noted that detailed information about the hotel and the locale can be found on the INCITS website in the T11 Meeting Information folder under April 2020.

#### **19.6 Letter to travel representatives on hotel rates ([T11-2017-00150-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 T11-2017-00150-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 April 2020 T11 meetings**

The vice chair Craig Carlson (Marvell) 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 April 2020.

## 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 #157 is shown in annex A.2. 23 people from 17 member organizations were in attendance.

## 21 Review of Action Items

20-001	T11 secretary to post approved Minutes of T11 meeting #156 as agreed at T11 meeting #157. (See <a href="#">clause 5</a> )
20-002	T11 chair to request INCITS Secretariat initiate an RFC ballot on the FC-PI-7P draft standard Rev. 1.00 contained in <a href="#">T11-2020-00003-v001</a> . See <a href="#">Clause 10.2</a> .

## 22 Adjournment

Greg McSorley (Amphenol) moved to adjourn at 1:53 PM. 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:

**Mr. James Coomes**

**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 #157 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	Gregory McSorley
	Alternate	Brad Brubaker
	Alternate	Daniel Dillow
	Alternate	Chris Lyon
	Alternate	Alex Persaud
	Alternate	Hu Silver
Broadcom	Principal	Steven L. Wilson
	Alternate	David Baldwin

	Alternate	Evan Beauprez
	Alternate	Ben Chu
	Alternate	Adam Healey
	Alternate	Howard Johnson
	Alternate	Mark Jones
	Alternate	Anil Mehta
	Alternate	David Peterson
	Alternate	Rob Peterson
	Alternate	John Petrilla
	Alternate	James Smart
Cisco	Principal	Mike Blair
	Alternate	Mark Allen
	Alternate	Harsha Bharadwaj
	Alternate	Rajesh L G
	Alternate	Fabio Maino
	Alternate	J Metz
	Alternate	Joe Pelissier
Commscope	Principal	Yang (Sunny) Xu
	Alternate	Gary Gibbs
	Alternate	Paul Kolesar
Corning	Principal	David Kozischek
	Alternate	Steven E. Swanson
DCS	Principal	Todd Wheeler
	Alternate	Steve Eisele
Dell	Principal	Alan Rajapa
	Alternate	David Black
	Alternate	David Brown
	Alternate	Gaurav Chawla
	Alternate	Erik Smith
	Alternate	Joseph White



	Alternate	Jeff Young
Finisar	Principal	Vipul Bhatt
	Alternate	Vera Koleva
	Alternate	Lance Thompson
Fujitsu America Inc	Principal	Mark Malcolm
	Alternate	Kun Katsumata
	Alternate	Osamu Kimura
	Alternate	Eugene Owens
Global Foundries	Principal	John Ewen
	Alternate	Jon Garlett
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
Macom	Principal	Tom Palkert
Marvell Semiconductor Inc	Principal	Craig W. Carlson
	Alternate	Anshul Agarwal
	Alternate	Sanjaya Anand
	Alternate	Girish Basrur
	Alternate	Kathy Caballero
	Alternate	Michael Dudek
	Alternate	Arun Easi
	Alternate	Robert Friend
	Alternate	Duane Grigsby
	Alternate	Rick Hicksted Jr.
	Alternate	Ali Khwaja
	Alternate	Stephen Lam
	Alternate	Ray Leung

	Alternate	Akinori Maeda
	Alternate	Praveen Midha
	Alternate	Trinh Nguyen
	Alternate	Raul Oteyza
	Alternate	Eddy Soetjahja
	Alternate	Alan Spalding
	Alternate	Gourangadoss Sundar
	Alternate	Darren Trapp
	Alternate	Andrew Vasquez
	Alternate	Dean Wallace
NetApp	Principal	Frederick Knight
	Alternate	John Meneghini
	Alternate	Vijay Rao
OFS	Principal	Roman Shubochkin
	Alternate	Mabud Choudhury
Teledyne LeCroy	Principal	David Rodgers
	Alternate	Amit Bakshi
	Alternate	Rakesh Kathiresan Natarajan
	Alternate	Douglas Lee
	Alternate	Henry Poelstra
Viavi	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 #157 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

Ciena	Principal	Stephen Shew
	Alternate	Sebastien Gareau
Futurewei	Principal	Timothy Jeffries
	Alternate	Lei Wang
Keysight Technologies	Principal	Stephen Didde
	Alternate	Steve Sekel
	Alternate	Joachim Vobis
Lumentum Operations	Principal	David Lewis
MediaTek	Principal	Tamer Ali
	Alternate	Mau-Lin Wu
Molex	Principal	Alexandra Haser
	Alternate	Tom Palkert
	Alternate	Scott Sommers
Panduit	Principal	Jose Castro
	Alternate	Bulent Kose
	Alternate	Robert Reid
	Alternate	Steve Skiest
TE Connectivity	Principal	Nathan Tracy
	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 #155 of the INCITS Fibre Channel (T11) Technical Committee:

<b>Organization</b>	<b>Representative(s)</b>
AMPHENOL CORP	Chris Lyon
	Gregory McSorley
BROADCOM INC	Steven L. Wilson
	David Peterson
CISCO SYSTEMS INC	Mark Allen
	Harsha Bharadwaj
	Mike Blair
COMMSCOPE	Gary Gibbs
CORNING INC	David Kozischek
DATA CENTER SYSTEMS	Todd Wheeler
DELL INC	Alan Rajapa
FUJITSU AMERICA INC	Mark Malcolm
HEWLETT PACKARD ENTERPRISE	Barry Maskas
IBM CORP	Patty Driever
	Roger Hathorn
MACOM	Thomas Palkert
MARVELL SEMICONDUCTOR INC	Craig W. Carlson
NETAPP INC	Frederick Knight
OFS FITEL LLC	Mabud Choudhury
TE CONNECTIVITY	Matt Schumacher
TELEDYNE LECROY CORPORATION	David Rodgers
	Henry Poelstra
VIAVI SOLUTIONS INC	Jason Rusch

**A.2.2 Ad hoc meeting attendance**

FC-NVMe-2 ad hoc, members

Organization	Representative(s)
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FC-SW-8 ad hoc, members

Organization	Representative(s)
BROADCOM	David Baldwin
	Howard Johnson
	David Peterson
CISCO SYSTEMS INC	Mike Blair
	Harsha Bharadwaj
	Mark Allen
DELL INC	Alan Rajapa
FUJITSU AMERICA INC	Mark Malcolm
HEWLETT PACKARD ENTERPRISE	Barry Maskas
IBM CORP	Patty Driever
	Roger Hathorn
NETAPP INC	Frederick Knight
VIAVI SOLUTIONS	Jason Rusch

FC-PI-8 ad hoc, members

Organization	Representative(s)
AMPHENOL CORPORATION	Gregory McSorley
BROADCOM INC	Ben Chu
	Anil Mehta
COMMSCOPE	Sunny Xu
	Gary Gibbs
CORNING INC	David Kozischek
DATA CENTER SYSTEMS	Steve Eisele

	Todd Wheeler
FINISAR CORPORATION	Vera Koleva
HEWLETT PACKARD ENTERPRISE	Barry Maskas
MARVELL SEMICONDUCTOR INC	Raul Oteyza
OFS FITEL LLC	Mabud Choudhury
PANDUIT CORP	Jose Castro
TELEDYNE LECROY CORP	Henry Poelstra
VIAVI SOLUTIONS	Jason Rusch

FC-GS-9 ad hoc, members

Organization	Representative(s)
BROADCOM INC	David Baldwin
	Howard Johnson
	Dennis Makishima
	David Peterson
	Steven Wilson
CISCO SYSTEMS INC	Mike Blair
	Mark Allen
	Harsha Bharadwaj
DELL INC	Alan Rajapa
FUJITSU AMERICA INC	Mark Malcolm
HEWLETT PACKARD ENTERPRISE	Barry Maskas
IBM CORP	Patty Driever
	Roger Hathorn
NETAPP INC	Frederick Knight
VIAVI SOLUTIONS	Jason Rusch

FC-LS-5 ad hoc, members

Organization	Representative(s)
BROADCOM INC	David Baldwin

	Howard Johnson
	Dave Peterson
	Steven Wilson
CISCO SYSTEMS INC	Mike Blair
	Harsha Bharadwaj
CORNING INC	David Kozischek
DELL INC	Alan Rajapa
FUJITSU AMERICA INC	Mark Malcolm
HEWLETT PACKARD ENTERPRISE	Barry Maskas
IBM CORP	Patty Driever
	Roger Hathorn
KEYSIGHT TECHNOLOGIES INC	Stephen Didde
MARVELL SEMICONDUCTOR INC	Craig Carlson
	Raul Oteyza
NETAPP INC	Frederick Knight
TELEDYNE LECROY CORPORATION	David Rodgers
	Henry Poelstra
VIAVI SOLUTIONS	Jason Rusch

FC-FS-6 ad hoc, members

Organization	Representative(s)
BROADCOM	David Baldwin
	Howard Johnson
	David Peterson
CISCO	Mike Blair
	Harsha Bharadwaj
DELL INC	Alan Rajapa
FUJITSU AMERICA INC	Mark Malcolm
HEWLETT PACKARD ENTERPRISE	Barry Maskas

IBM	Patty Driever
	Roger Hathorn
MARVELL SEMICONDUCTOR INC	Craig Carlson
NETAPP INC	Frederick Knight
TELEDYNE LECROY CORPORATION	Henry Poelstra
VIAVI SOLUTIONS	Jason Rusch

FC-RDMA ad hoc, members

Organization	Representative(s)
BROADCOM INC	David Baldwin
	Howard Johnson
	David Peterson
	Steven Wilson
CISCO SYSTEMS INC	Mark Allen
	Harsha Bharadwaj
	Mike Blair
DELL INC	Alan Rajapa
FUJITSU AMERICA INC	Mark Malcolm
HEWLETT PACKARD ENTERPRISE	Barry Maskas
IBM CORPORATION	Patty Driever
	Roger Hathorn
NETAPP INC	Frederick Knight

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

Organization	Representative(s)
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AMPHENOL CORP	Gregory McSorley
BROADCOM INC	David Baldwin
	Ben Chu
	Howard Johnson
	David Baldwin
	Steven Wilson
CISCO SYSTEMS INC	Mike Blair
COMMSCOPE INC	Gary Gibbs
CORNING INC	David Kozischek
FUJITSU AMERICA INC	Mark Malcolm
HEWLETT PACKARD ENTERPRISE	Barry Maskas
IBM CORPORATION	Patty Driever
	Roger Hathorn
MARVELL SEMICONDUCTOR INC	Craig Carlson
	Raul Oteyza
OFS FITEL LLC	Mabud Choudhury
TELEDYNE LECROY CORPORATION	David Rodgers
	Henry Poelstra
VIAMI SOLUTIONS	Jason Rusch

## 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 #156 held on 05 December 2019.

<b>Standard</b>	<b>Status</b>	<b>Action</b>	<b>Target or Reaffirm Date</b>	<b>Editor</b>	<b>Ad Hoc Chair</b>	<b>Secretary</b>
Projects in Development Stage						
FC-FS-6	In dev.	To T11	Dec-19	Carlson	Peterson	Driever
FC-GS-9	In dev.	To T11	Dec-20	Rusch	Peterson	Driever
FC-LS-5	In dev.	To T11	Jun-20	Carlson	Driever	Rusch
FC-PI-7P	In dev.	ToT11	Dec-19	Castro	Wallace	Wallace
FC-PI-8	In dev.	ToT11	Dec-20	Castro	Wallace	Wallace
FC-MSQS-3	In dev.	To T11	Dec-19	Castro	Wallace	Wallace
FC-NVMe-2	In dev.	To T11	Oct-19	Peterson	Carlson	Hathorn
FC-RDMA	In dev.	To T11.	Oct.20	Peterson	Carlson	Peterson
FC-SW-8	In dev	ToT11	Jun 20	Peterson	Carlson	Peterson
Projects in Approval Stage						
FC-PI-7	At INCITS	ANSI App	Dec-19	Castro	Wallace	Wallace
FC-SW-7	At INCITS	Pre-Edit	Dec-19	Peterson	Carlson	Peterson
FC-LS-4	At INCITS	Pre-Edit	Feb-20	Carlson	Driever	Rusch
FC-GS-8	At INCITS	Pre-Edit	Feb-20	Rusch	Peterson	Driever

## B.2 INCITS SC 25 / WG4 project status

The following tables indicates the status of all active INCITS SC 25 / WG4 TAG projects. It reflects the official status as reported at the T11 regular meeting #156, 05 December 2019 in document T11-2019-00339-v000. The SC 25/WG 4 TAG project database is available in document [sc25-wg4-2018-00011-TAG-Project-Database](#).

### B.2.1 Active T11 SC25 WG4 TAG Projects

	ISO/IEC # (T11 allocated)	Status
FC-SP-2+AM1 NWIP	14165-432	Submitted in July 2018. Resubmission email from INCITS/TIA on January 18, 2019 Feb 22 – email from Juergen indicates IEC project was started JTC1-SC25/2860/NP ballot opened 3/1/2019 and closed 05/24/2019 – Stage: ACD – Approved for CD 9/16/19 – CD circulated on 9/13/19 <ul style="list-style-type: none"> <li>- International (comments) due date: 12/06/2019</li> <li>- TAG (comments) Deadline: 11/06/2019</li> </ul> Stage: PCC – Preparation of CC
FC-BB-6 Fast Track	14165-246	ISO ballot opened 3/21/2019 and closed 6/13/2019 Source and PDF in A4 format requested and provided PDF generated using Word source Should be published soon
FC-SB-6 Fast Track	14165-225	ISO ballot opened 3/21/2019 and closed 6/13/2019 Source and PDF in A4 format requested and provided PDF generated using Word source Should be published soon