



InterNational Committee for Information Technology Standards  
(INCITS) Secretariat: Information Technology  
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Washington, DC 20001

[www.INCITS.org](http://www.INCITS.org)



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**T11-2021-00051-v000**

**Approved Minutes  
INCITS Fibre Channel (T11) Technical Committee  
Regular Meeting #162  
10 December 2020 – 1 PM to 3 PM CDT  
Virtual Meeting**

## **1 Opening Remarks and Introductions**

### **1.1 Introductory Remarks**

TC T11 chair Steve Wilson (Broadcom) convened regular meeting #162 of the INCITS Fibre Channel (T11) Technical Committee on Thursday, 10 December 2020 at 1:03 PM CDT. He introduced himself and thanked our host Marvell for the virtual meeting facilities.

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

### **1.2 Self-introductions**

The chair indicated that those present are visible on the Zoom meeting, so we did not do formal introductions.

### **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 T11-2020-00249-v001. The chair presented the agenda with final updates as T11-2020-00249-v002 and made a call for any changes and new agenda items. No changes or new items were requested.

David Peterson (Broadcom) moved and Chris Lyon (Amphenol) seconded that T11-2020-00249-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:

Greg McSorley was removed as Principal, Paul Coddington was added as Alternate for Amphenol, Corporation, and Sam Kocsis became the Principal member. Other representation for Amphenol remains the same.

Mark Allen was removed as Alternate and Rajesh L.G. was added as Alternate for Cisco Systems, Inc. Other representation for Cisco remains the same.  
Andrew Joy and James Hamada were added as Alternates for Marvell Semiconductor, Inc. Other representation for Marvell remains the same.  
John Meneghini was added and Vijay Rao was removed as Alternate for NetApp, Inc. Other representation for NetApp remains the same.  
Chaohong (Henry) Hu and Victor Cao were added as Alternates for Futurewei Technologies, Inc. Also Lei Wang was removed as Alternate for Futurewei. All other representation for Futurewei remains the same.  
Phil Sun added as Principle and Yasuo Haduka added as Alternate for Credo Semiconductor.  
James Coomes was removed from the Emeritus list due to email bouncing.

Fujitsu has cancelled their membership.

### **3.3 New Voting Memberships**

- No additional companies were granted voting membership at this meeting.

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

- DCS was in membership jeopardy for non-attendance during this meeting cycle, but was present in today's meeting.

### **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**

- There were no companies 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 08 October 2020. With 1 member cancelling membership, no members losing voting privileges, and no members gaining voting privileges the voting membership of T11 now stands at 17 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 17. One third of the total membership for this meeting is 6. 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 6. 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 #161

The prior regular meeting of the INCITS Fibre Channel (T11) Technical Committee was #161 on 08 October 2020. The draft Minutes of that meeting were posted as document T11/2020-00240-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.

David Peterson (Broadcom) moved and Barry Maskas (HPE) seconded to accept T11/2020-00240-v000 as the Minutes of T11 meeting #161 on 08 October 2020. The motion passed by acclamation.

See action item [20-015](#).

## 6 Review of Old Action Items

20-013	T11 secretary to post approved Minutes of T11 meeting #160 as agreed at T11 meeting #161. Completed by posted T11-2020-00280-v000 on December 7, 2020.
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20-014	T11 chair to update T11 Future Meeting Schedule with Couer d'Alene as the April 2021 venue. Completed by Chair on November 10, 2020.
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## 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 There were no letter ballots since the last meeting cycle.

## 9 Old Business

No old business was reopened.

## 10 Task Group T11.2 - Physical Interfaces

### 10.1 Report to T11 Plenary ([T11-2020-00299-v000](#))

Task Group chair Tom Palkert (Macom) gave the report posted as T11-2020-00299-v000 on activity at T11.2.

### 10.2 Actions



**10.2.1** There were no actions

### **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 ([T11-2020-00300-v000](#))**

Task Group chair Craig Carlson (Marvell) presented the information posted as T11-2020-00300-v000 on activity at T11.3.

### **11.2 Actions**

**11.2.1** There were no actions.

### **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 ([T11-2020-00295-v000](#))**

The chair referred everyone to the information posted as T11-2020-00295 on activity at the Joint T11.2/T11.3 working group, but since both groups were a part of the meeting and it was reviewed in both the T11.2 and T11.3 plenaries, it was left to people to review the content posted.

### **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 SC 25 / WG4 TAG Status Report ([T11-2020-00269-v000](#))**

Dave Peterson (Broadcom) presented the information posted as T11-2020-00269-v000 on INCITS SC 25 / WG4 TAG project status (see [annex B.2](#)).

### **15 T11 New Business**

#### **15.1 National Maintenance Review ([National Maintenance Report 2021](#))**

The Chair reviewed the list of documents up for action in the next annual cycle. We will be voting in the February meeting on the Chair's recommendations so everyone should review the list of documents awaiting action before then.

#### **15.2 Sensitive Language**

Lynn Barra (INCITS Secretariat) described an Ad Hoc committee that was formed to address use of non-inclusive language in specifications and other documents. The Ad Hoc is compiling a list of terms to be avoided and identifying replacements for them. INCITS is also working with ANSI on this.

One concern was raised regarding the question of whether legacy versions of standards that have since been replaced need to also be updated, due to lack of resource available to perform this exercise.

### **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 ([T11-2020-00248-v000](#)), INCITS Liaison report ([T11-2020-00276-v000](#))**

Steve Wilson (Broadcom) presented the information posted as T11-2020-00248-v000 on activity at T11 as reported to other organizations, and the information posted as T11-2020-00276-v000 on activity at INCITS other than T11 project status.

### **17.2 TC T10 ([T11-2020-00278-v000](#))**

Fred Knight (NetApp) gave report T11-2020-00278 on activity at T10.

### **17.3 FCIA ([T11-2020-00297-v000](#))**

Chris Lyon (Amphenol) gave report T11-2020-00236-v000 on activity at FCIA.

### **17.4 IEEE 802.3 ([T11-2020-00293-v000](#))**

Tom Palkert (Macom) and Mabud Choudhury (OFS) gave report T11-2020-00293-v000 on activity at IEEE 802.3.

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

### **17.6 SNIA and DMTF ([T11-2020-00283-v000](#))**

Fred Knight (NetApp) discussed report T11-2020-00283-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 Marvell via Zoom virtual conference 01-04 February 2021.

### 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 2021-2022.

Date	Location	Host Organization	Host Person
February 1-5, 2021	Virtual Meeting		
April 5-9, 2021	Virtual Meeting		
June 7-12, 2021	Duluth, MN*	Marvell	Craig Carlson
August 16-20, 2021	Sante Fe, NM*	Broadcom	Steve Wilson
October 4-8, 2021	tbd	tbd	tbd
December 6-10, 2021	Deerfield Beach, FL*	Amphenol	Chris Lyon
February 7-11, 2022	tbd	tbd	tbd

April 4-8, 2022	tbd	tbd	tbd
June 6-10, 2022	tbd	tbd	tbd
August 8-12, 2022	tbd	tbd	tbd
October 3-7, 2022	tbd	tbd	tbd
December 5-9, 2022	tbd	tbd	tbd

\*Locations are pending based on when face-to-face meetings resume

## 19.4 Approval of Meeting Venues

**19.4.1** Due to company restrictions, it was agreed that the April meeting should remain as a virtual meeting. We will wait to decide on June and August.

Steve also proposed dates for 2022, which we hope will be face-to-face meetings, so we will need meeting hosts. Steve Wilson (Broadcom) made a motion to approve the dates as shown for 2022. The motion was seconded by David Rodgers (Teledyne-LeCroy). Motion carried In Favor-17, Abstain-0, Opposed- 0

The chair will update the meeting information on the website.

See action item [20-016](#).

## 19.5 Next meeting information

The chair reminded the membership that the next T11 plenary week will be a virtual meeting hosted by Marvell via Zoom February 01-04, 2021.

## 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 February 2021 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 February 2021.

### 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 #162 is shown in annex A.2. 33 people from 19 member (17 voting) organizations were in attendance.

### 21 Review of Action Items

20-015	T11 secretary to post approved Minutes of T11 meeting #161 as agreed at T11 meeting #162. (See <a href="#">clause 5</a> )
20-016	T11 chair to update T11 Future Meeting Schedule with 2022 dates and change of April 2021 meeting back to a virtual meeting. See <a href="#">Clause 19.4</a> .

### 22 Adjournment

David Rodgers (Teledyne-LeCroy) moved, and Steve Eisele (DCS) seconded, to adjourn at 2:19 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 #162 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	Sam Kocsis
	Alternate	Brad Brubaker
	Alternate	Paul Coddington
	Alternate	Daniel Dillow
	Alternate	Michael Klempa
	Alternate	Chris Lyon
	Alternate	Alex Persaud
	Alternate	Hu Silver
	Alternate	Michael Wingard
Broadcom	Principal	Steven L. Wilson
	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	James Smart
	Alternate	Anil Veerabhadrapa
Cisco	Principal	Mike Blair
	Alternate	Harsha Bharadwaj
	Alternate	Rajesh L.G.
	Alternate	Fabio Maino
	Alternate	Mark Nowell
	Alternate	Sai Pavan
	Alternate	Joe Pelissier
	Alternate	Kiran Ranabhor
	Alternate	Sumanth Sindiri
	Alternate	Ramesh Sivakolundu
Commscope	Principal	Yang (Sunny) Xu
	Alternate	Gary Gibbs
Corning	Principal	David Kozischek
	Alternate	Steven E. Swanson
DCS	Principal	Steve Eisele
	Alternate	Rodney Jack
Dell	Principal	Erik Smith
	Alternate	David Black
	Alternate	David Brown
	Alternate	Gaurav Chawla
	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	Steve Sekel
	Alternate	Joachim Vobis
Macom	Principal	Thomas 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	James Hamada
	Alternate	Rick Hicksted Jr.
	Alternate	Andrew Joy
	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	Andrew Vasquez
	Alternate	Dean Wallace
NetApp	Principal	Frederick Knight
	Alternate	John Meneghini
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
	Alternate	Srikant Tadigadapa
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 #162 of the INCITS Fibre Channel (T11) Technical Committee, including the recognized representatives of each member organization:

Organization	Representative Type	Representative
Anritsu	Principal	Tadanori Nishikobara

	Alternate	Yuji Sekine
Ciena	Principal	Stephen Shew
	Alternate	Sebastien Gareau
Credo Semiconductor	Principal	Phil Sun
	Alternate	Yasuo Hidaka
Futurewei	Principal	Timothy Jeffries
	Alternate	Victor Cao
	Alternate	Chaohong (Henry) Hu
Lumentum Operations	Principal	David Lewis
MediaTek	Principal	Tamer Ali
	Alternate	Yan-Bin Luo
	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	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 #162 of the INCITS Fibre Channel (T11) Technical Committee:

<b>Organization</b>	<b>Representative(s)</b>
AMPHENOL CORP	Paul Coddington
	Michael Klempa
	Sam Kocsis
	Chris Lyon
BROADCOM INC	Ben Chu
	Howard Johnson
	David Peterson
	Anil Veerabhadrapa
	Steven L. Wilson
CISCO SYSTEMS INC	Mike Blair
	Ramesh Sivakolundu
COMMSCOPE	Sunny Xu
CORNING INC	David Kozischek
DATA CENTER SYSTEMS	Steve Eisele
DELL INC	David Piehler
	Vinay Sawal
	Erik Smith
HEWLETT PACKARD ENTERPRISE	Barry Maskas
IBM CORP	Patty Driever
	Roger Hathorn
II-VI INC	Vera Koleva
	Lance Thompson
INCITS SECRETARIAT	Lynn Barra
KEYSIGHT TECHNOLOGIES INC	Stephen Didde

MACOM	Thomas Palkert
MARVELL SEMICONDUCTOR INC	Craig W. Carlson
	Raul Oteyza
NETAPP INC	Frederick Knight
OFS FITEL LLC	Mabud Choudhury
PANDUIT CORPORATION	Jose Castro
TELEDYNE LECROY CORPORATION	Henry Poelstra
	David Rodgers
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 INC	Howard Johnson
	David Peterson
	Anil Veerabhadrappa
	Steven Wilson
CISCO SYSTEMS INC	Harsha Bharadwaj
IBM CORP	Patty Driever
	Roger Hathorn
MARVELL SEMICONDUCTOR INC	Craig Carlson
NETAPP INC	Frederick Knight

FC-PI-8 ad hoc, members

<b>Organization</b>	<b>Representative(s)</b>
AMPHENOL CORPORATION	Michael Klempa
	Sam Kocsis
	Chris Lyon
BROADCOM INC	Ben Chu
	Anil Mehta
	Steven Wilson
CISCO SYSTEMS INC	Mike Blair
	Ramesh Sivakolundu
	Xiaohong Wu
COMMSCOPE	Sonny Xu
CORNING INC	David Kozischek
CREDO SEMICONDUCTOR	Phil Sun
DATA CENTER SYSTEMS	Steve Eisele
HEWLETT PACKARD ENTERPRISE	Barry Maskas
II-VI INC	Vera Koleva
	Lance Thompson
KEYSIGHT TECHNOLOGIIES INC	Stephen Didde
LUMENTUM OPERATIONS	David Lewis
MARVELL SEMICONDUCTOR INC	Mike Dudek
	Andrew Joy
	Raul Oteyza
	Dean Wallace
OFS FITEL LLC	Mabud Choudhury
PANDUIT CORP	Jose Castro
TELEDYNE LECROY CORPORATION	Henry Poelstra

FC-GS-9 ad hoc, members

<b>Organization</b>	<b>Representative(s)</b>
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BROADCOM INC	Howard Johnson
	David Peterson
	James Smart
	Anil Veerabhadrapa
CISCO SYSTEMS INC	Mike Blair
HEWLETT PACKARD ENTERPRISE	Barry Maskas
IBM CORP	Roger Hathorn
NETAPP INC	Frederick Knight
VIAVI SOLUTIONS INC	Jason Rusch

FC-LS-5 ad hoc, members

Organization	Representative(s)
BROADCOM INC	Howard Johnson
	Dave Peterson
	Anil Veerabhadrapa
CISCO SYSTEMS INC	Harsha Bharadwaj
	Mike Blair
HEWLETT PACKARD ENTERPRISE	Barry Maskas
IBM CORP	Patty Driever
	Roger Hathorn
MARVELL SEMICONDUCTOR INC	Craig Carlson
NETAPP INC	Frederick Knight
VIAVI SOLUTIONS	Jason Rusch

FC-FS-6 ad hoc, members

Organization	Representative(s)
AMPHENOL CORP	Michael Klempa
BROADCOM	David Peterson
	Howard Johnson

	Mark Jones
	James Smart
	Anil Veerabhadrapa
	Steven Wilson
CISCO	Mike Blair
	Ed Mazurek
DELL INC	Vinay Sawal
HEWLETT PACKARD ENTERPRISE	Barry Maskas
IBM	Patty Driever
	Roger Hathorn
MARVELL SEMICONDUCTOR INC	Craig Carlson
	Raul Oteyza
NETAPP INC	Frederick Knight
TELEDYNE LECROY CORPORATION	Henry Poelstra
VIAVI SOLUTIONS INC	Jason Rusch

FC-PM ad hoc, members

Organization	Representative(s)
BROADCOM INC	Mark Jones
	Howard Johnson
	David Peterson
	James Smart
	Anil Veerabhadrapa
	Steven Wilson
CISCO SYSTEMS INC	Mike Blair
HEWLETT PACKARD ENTERPRISE	Barry Maskas
IBM CORPORATION	Patty Driever

	Roger Hathorn
MARVELL SEMICONDUCTOR INC	Craig Carlson
	Raul Oteyza
NETAPP INC	Frederick Knight
TELEDYNE LECROY CORPORATION	Henry Poelstra
VIAVI SOLUTIONS INC	Jason Rusch

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

Organization	Representative(s)
BROADCOM INC	Ben Chu
	Howard Johnson
	Anil Mehta
	David Peterson
	James Smart
	Steven Wilson
CISCO SYSTEMS INC	Mike Blair
	Rames Sivakolundu
DATA CENTER SYSTEMS	Steve Eisele
HEWLETT PACKARD ENTERPRISE	Barry Maskas
	Krishna Babu Puttagunta
IBM CORPORATION	Patty Driever
	Roger Hathorn
II-VI INC	Lance Thompson
MARVELL SEMICONDUCTOR INC	Craig Carlson
	Mike Dudek
	Raul Oteyza
NETAPP INC	Frederick Knight
OFS FITEL LLC	Mabud Choudhury
PANDUIT CORPORATION	Jose Castro

TELEDYNE LECROY CORPORATION	Henry Poelstra
	David Rodgers
VIAVI SOLUTIONS INC	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 #162 held on 10 December 2020.

Standard	Status	Action	Target or Reaffirm Date	Editor	Ad Hoc Chair	Secretary
Projects in Development Stage						
FC-FS-6	In dev.	To T11	Jun-21	Carlson	Peterson	Driever
FC-GS-9	In dev.	To T11	Jun-21	Rusch	Peterson	Johnson
FC-LS-5	In dev.	To T11	Jun -21	Carlson	Driever	Rusch
FC-PI-8	In dev.	ToT11	Dec-21	Rusch	Wallace	Wallace
FC-MSQS-3	In dev.	To T11	Dec-21	Castro	Wallace	Wallace
FC-PM	In dev.	To T11.	Oct.21	Peterson	Carlson	Peterson
FC-SW-8	In dev	ToT11	Jun 21	Peterson	Carlson	Peterson
Projects in Approval Stage						
FC-PI-7P	At INCITS	ANSI Approval	Feb-21	Rusch	Wallace	Wallace

## 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 #162, 10 December 2020 in document T11-2020-00269-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	<p>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</p> <ul style="list-style-type: none"> <li>- International (comments) due date: 12/06/2019</li> <li>- TAG (comments) Deadline: 11/06/2019</li> </ul> <p>Stage: PCC – Preparation of CC                      1/28/20 – No comments requesting changes received, with request for Word source                      6/03/20 – Received request for Word source again 😞                      DIS text was submitted to IEC for further processing. FDIS ballot should be issued shortly.                      12/7/20 – Sent email requesting status</p>

FC-PI-7	14165-147	JTC 1 fast track ballot opens June 5 and closes August 28, 2020. The Executive Board default position is to approve the project and objections are due by July 24, 2020 <ul style="list-style-type: none"><li>- Summary states Approval</li></ul> Received email to verify pdf for publication <ul style="list-style-type: none"><li>- Reviewed and sent approval on Dec 9, 2020</li></ul>
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