



**InterNational Committee for Information Technology Standards**  
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**T11-2017-00272-v000**

**Pre-Draft Minutes  
INCITS Fibre Channel (T11) Technical Committee  
Regular Meeting #142  
10 August 2017 – 1 PM to 4 PM EDT  
Providence, RI**

## **1 Opening Remarks and Introductions**

### **1.1 Introductory Remarks**

TC T11 chair Steve Wilson (Brocade) convened regular meeting #142 of the INCITS Fibre Channel (T11) Technical Committee on Thursday, 10 August 2017 at 1:00 PM EDT. He introduced himself, and thanked Barry Maskas and our host Hewlett Packard Enterprises for the meeting facilities and amenities and Susan Crolla of the FCIA for her assistance all week.

He next introduced Lou Ricci (Dell) as acting vice chair and thanked him for all he has done for and with T11, which was followed by a round of applause. Patty Driever (IBM) introduced herself as filling in today for Richard Johnson (Finisar) 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 T11-2017-00214-v002. The chair presented the agenda and made a call for any changes and new agenda items. No changes or new items were requested.

Dave Peterson (Brocade) moved and Jason Rusch (Viavi) seconded that T11-2017-00214-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 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:

- **Dell:** Alan Rajapa is added as Alternate
- **FIT:** Willaim Peters added as Alternate, John Petrilla, Randy Clark, Fred Fons, and Glen

- Moore remain respectively as Principal and Alternates.
- **HPE:** Siamack Ayandeh removed as Alternate. Barry Maskas, Krishna Babu Puttagunta, and Rupin Mohan remain respectively as Principal and Alternates.
  - **Molex:** Mark Bugg is removed as Alternate. Jay Neer, Alex Haser, and Scott Sommers remain respectively as Principal and Alternates.
  - **NetApp:** John Meneghini added as Alternate. Frederick Knight and Urmi Misra remain respectively as Principal and Alternate.
  - **QLogic:** Kahty Cabellero, Ali Khwaja Stephen Lam, and Trinh Nguyen added as Alternates. Craig Carlson, Dean Wallace, Raul Oteyza, Darren Trap, Anshul Agarwal, Girish Basrur, Duane Grigsby, Alan Spalding, Gourangadoss Sundar, and Andrew Vasquez remain respectively as Principal and Alternates.

### 3.3 New Voting Memberships

- None for this meeting cycle.

### 3.4 Voting memberships in jeopardy for attendance

- No member is in jeopardy for non-attendance.

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

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

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

- No member is in jeopardy for letter ballot performance this meeting cycle.

### 3.7 Membership for this meeting

Technical Committee T11 had 22 voting members at the T11 regular meeting 8 June 2017. With no new members gaining voting membership and no members losing voting membership, the voting membership of T11 remains at 22 for this meeting.

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 22. One third of the total membership for this meeting is 8. The number of member organizations that responded to the call for quorum was 20. This exceeds or equals one third of the total membership for this meeting and also exceeds or equals 4. 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 #141**

The prior regular meeting of the INCITS Fibre Channel (T11) Technical Committee was #141 on 08 June 2017. The draft Minutes of that meeting were posted as document T11/2017-00193-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 (richard.johnson@finisar.com) or at the subsequent meeting in person. No corrections were requested.

Dave Peterson (Brocade) moved and Jason Rusch (Viavi) seconded to accept T11/2017-00193-v000 as the Minutes of T11 meeting #141 on 08 June 2017. The motion passed by acclamation.

See action item [17-012](#).

## 5.1 Motion to modify the February T11 Minutes

Steve Wilson (Brocade) motioned and Jay Neer (Molex) seconded that the T11 February minutes be modified to reflect that Macom was in attendance at the February T11 plenary meeting. A show-of-hands vote was taken, with 20 affirming, 0 opposing, and 0 abstaining.

See action item [17-013](#).

## 6 Review of Old Action Items

17-008	T11 secretary to post approved Minutes of T11 meeting #140 as agreed at T11 meeting #141. (See <a href="#">clause 5</a> )
17-009	T11 International representative to provide list of delegates for the 2017 JTC 1 / SC 25 meeting in Brugges, Belgium to INCITS. (See <a href="#">clause 14.2.1</a> )
17-010	T11 chair to prepare proposal for T11 informal voting period to PBC. (See <a href="#">clause 15.1</a> )
17-011	T11 chair to update meeting schedule showing revised dates for April 2018. (See <a href="#">clause 19.4.1</a> )

All of the above items were completed.

## 7 Review of T11 Project and Proposal Status

### 7.1 Project Proposals

There were no new project proposals presented during this meeting cycle.

### 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**

There were no non-ISO letter ballots held during this meeting cycle.

## **9 Old Business**

No old business was reopened.

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

### **10.1 Report to T11 Plenary (T11-2017-00136-v000)**

Task Group chair Tom Palkert (Macom) gave the report posted as T11-2017-00270-v001 on activity at T11.2.

### **10.2 Actions**

There were no actions requested during this plenary 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 (T11-2017-00269-v000)**

Task Group chair Craig Carlson (Cavium / QLogic) presented the information posted as T11-2017-00269-v000 on activity at T11.3.

### **11.2 Actions**

T11.3 is requesting an INCITS letter ballot be conducted on rev. 1.18 of FC-NVMe (T11-2017-000145-v003).

See action item [17-014](#).

### **11.3 Other Items**

No other items were presented for TG T11.3.

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

The joint TG T11.2 / T11.3 meeting report was presented as part of the Task Group T11.2 report. The information on the joint TG T11.2/T11.3 is posted as T11-2017-00253-v000.

### **13 T11 project activities**

No T11 project activities were reviewed during this plenary meeting cycle.

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

#### **14.1 ISO Status Report (T11-2017-00252-v000)**

T11 International Representative Dave Peterson (Brocade) presented the information posted as T11-2017-00252-v000 on project status at ISO (see [annex B.2](#)).

Yang Xu (Commscope) gave verbal updates related to IEC activity.

#### **14.2 ISO Motions**

##### **14.2.1 Delegates Nomination (T11-2017-00180-v000)**

There were no ISO motions reviewed during this plenary meeting cycle.

### **15 T11 New Business**

#### **15.1 Principles of Cooperation between TC T11 and SNIA (T11-2017-00246-v000)**

Steve Wilson (Brocade) presented the agreement between TC T11 and SNIA for sharing of information and other principles of cooperation for the relationship which has only minor updates from the prior agreement. Steve moved and Lou Ricci (Dell) seconded to approve this agreement as documented and forward to SNIA for their approval.

A show-of-hands vote was taken, with 20 affirming, 0 opposing, and 0 abstaining.

See action item [17-015](#).

## **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 (T11-2017-00213-v000), INCITS Liaison report (T11-2017-00226-v001)**

Steve Wilson (Brocade) presented the information posted as T11-2017-00213-v000 on activity at T11 as reported to other organizations, and the information posted as T11-2017-00226-v001 on activity at INCITS other than T11 project status.

### **17.2 TC T10 (T11-2017-00267-v000)**

Fred Knight (NetApp) reviewed report T11-2017-00267-v000 on activity at INCITS Technical Committee T10.

### **17.3 FCIA (T11-2017-00254-v000)**

Jay Neer (Molex) gave report T11-2017-00254-v000 on activity at FCIA.

### **17.4 IEEE 802.3 (T11-2017-00256-v000)**

Tom Palkert (Macom) summarized his IEEE liaison report T11-2017-00256-v000 which he presented in the T11.2 plenary.

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

No report on INCITS TC CS1 activity was given during this plenary meeting cycle.

### **17.6 SNIA and DMTF (T11-2017-00268-v000)**

Fred Knight (NetApp) discussed report T11-2017-00268-v000 on SNIA activities.

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

Craig Carlson (QLogic/Cavium) gave a brief verbal report on recent NVMe activities.

### **17.8 COBO (verbal)**

No report on COBO activity was given during this plenary meeting cycle.

## **18 Administrative Matters**

### **18.1 Officer Appointments**

Officers of this Technical Committee and its Task Groups are:

T11 Chair	Steve Wilson (Brocade)
T11 International Representative	David Peterson (Brocade)
T11 Secretary	Richard Johnson (Finisar)
T11 Vice chair	Claudio DeSanti (Self)
T11.2 Chair	Tom Palkert (Macom)
T11.2 Secretary	Richard Johnson (Finisar)
T11.2 Vice-chair	Dean Wallace (QLogic)
T11.3 Chair	Craig Carlson (QLogic)
T11.3 Secretary	Patty Driever (IBM)
T11.3 Vice-chair	Lou Ricci (Dell)

## 18.2 T11 Information Technology

### 18.2.1 Website status

The website status was given in the INCITS report.

## 19 Future Meeting Schedule

### 19.1 Authorization of adhoc meetings

The chair directed members to the ICMS T11.2 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. No interim meetings have been requested of the Chair at this time. 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 FCIA and Susan Crolla in Coeur d'Alene, ID, 2-6 October 2017.

### 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” T11-2017-00151v00. 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 – 2017 & 2018 future meeting plans

The chair announced the following schedule for 2017 meetings and asked members to volunteer to host 2018 meetings.

<b>Date</b>	<b>Location</b>	<b>Host Organization</b>	<b>Host Person</b>
October 2-6, 2017	Coeur d'Alene, ID	FCIA	Susan Crolla
December 4-8, 2017	Santa Rosa, CA	Brocade	Steve Wilson
February 5-9, 2018	Fort Worth, TX	DCS	Zach Nason
April 2-6, 2018	Deerfield Beach, FL	Molex	Tom Palkert
June 4-8, 2018	Santa Fe, NM	QLogic	Craig Carlson
August 6-10, 2018	(tbd)	Amphenol	Chris Lyon
October 1-5, 2018	New Orleans, LA	FCIA	Susan Crolla
December 3-7, 2018	(tbd)		

### 19.4 Approval of Meeting Venues

#### 19.4.1 New Orleans, LA October 2018 meeting

Dave Peterson (Brocade) moved and Patty Driever (IBM) seconded to support holding the October 2018 meeting in New Orleans, hosted by FCIA.

A show-of-hands vote was taken, with 20 affirming, 0 opposing, and 0 abstaining.

## **19.5 Next meeting information**

The chair reminded the membership that the next T11 plenary week is hosted by FCIA and Susan Crolla in Couer d'Alene, ID, 2-6 October 2017. 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 October 2017.

## **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 August 2017 T11 meetings**

The acting vice chair Lou Ricci (Dell) 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 October 2017.

## **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 #142 is shown in annex A.2. 22 people from 20 member organizations were in attendance.

## 21 Review of Action Items

17-012	T11 secretary to post approved Minutes of T11 meeting #141 as agreed at T11 meeting #142. (See <a href="#">clause 5</a> )
17-013	T11 secretary to modify February meeting minutes to reflect Macom in attendance (See <a href="#">clause 5.1</a> )
17-014	T11 Chair to request INCITS letter ballot be conducted for FC-NVMe, forwarding rev 1.18 of FC-NVMe (T11-2017-00145-v003) (See <a href="#">clause 11.2</a> )
17-015	T11 Chair to send approved "Principals of Cooperation between TC T11 and SNIA" document to SNIA for their approval. (See <a href="#">clause 15.1</a> )

## 22 Adjournment

Lou Ricci (Dell) moved, seconded by Dave Peterson (Brocade) to adjourn at 1:49 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**

**Mr. Roger Cummings**

**Dr. William Ham**

**Mr. Robert Kembel**

**Mr. Joseph Mathis**

**Mr. Bob Nixon**

**Mr. Schelto Van Doorn**

**Mr. Gary Stephens**

**Mr. Horst Truedstedt**

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

The following is the list of organizations that are voting members of record for regular meeting #142 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	Michael Wingard

	Alternate	Alex Persaud
	Alternate	Chris Lyon
	Alternate	Daniel Dillow
	Alternate	Brad Brubaker
	Alternate	Mike Davis
Broadcom Limited	Principal	Gautam Shiroor
	Alternate	Evan Beauprez
	Alternate	Adam Healey
	Alternate	James Smart
	Alternate	David Baldwin
	Alternate	Ben Chu
	Alternate	Mark Jones
Brocade	Principal	Steven L. Wilson
	Alternate	David Peterson
	Alternate	Scott Kipp
	Alternate	John Crandall
	Alternate	Anil Mehta
	Alternate	Howard Johnson
	Alternate	Rob Peterson
Cisco	Principal	Mike Blair
	Alternate	Fabio Maino
	Alternate	J Metz
	Alternate	Landon Noll
	Alternate	Joe Pelissier
Commscope	Principal	Yang (Sunny) Xu
	Alternate	Paul Kolesar
	Alternate	Gary Irwin
	Alternate	Gary Gibbs
Corning	Principal	Doug Coleman
	Alternate	Steven E. Swanson

DCS	Principal	Kevin Ehringer
	Alternate	Todd Wheeler
	Alternate	Zach Nason
Dell	Principal	Louis Ricci
	Alternate	David Black
	Alternate	Erik Smith
	Alternate	Joseph White
	Alternate	Gaurav Chawla
	Alternate	Jeff Young
	Alternate	Alan Rajapa
Finisar	Principal	Chris Yien
	Alternate	Richard Johnson
Foxconn Interconnect Technologies	Principal	John Petrilla
	Alternate	Randy Clark
	Alternate	Fred Fons
	Alternate	Glenn Moore
	Alternate	William Peters
Fujitsu	Principal	Mark Malcolm
	Alternate	Kun Katsumata
	Alternate	Eugene Owens
	Alternate	Osamu Kimura
Global Foundries	Principal	Adrian Butter
	Alternate	John Ewen
Hewlett Packard Enterprise	Principal	Barry Maskas
	Alternate	Krishna Babu Puttagunta
	Alternate	Rupin Mohan
IBM	Principal	Roger Hathorn
	Alternate	Patty Driever
Macom	Principal	Tom Palkert
Molex	Principal	Jay Neer

	Alternate	Alex Haser
	Alternate	Scott Sommers
NetApp	Principal	Frederick Knight
	Alternate	Urmi Misra
	Alternate	John Meneghini
OFS	Principal	Roman Shubochkin
	Alternate	Mabud Choudhury
Oracle	Principal	Roger Dickerson
	Alternate	Michael Roy
	Alternate	Matt Gaffney
	Alternate	Joe Chen
	Alternate	Doug Meyers
	Alternate	Hyon Kim
QLogic	Principal	Craig W. Carlson
	Alternate	Dean Wallace
	Alternate	Raul Oteyza
	Alternate	Darren Trap
	Alternate	Anshul Agarwal
	Alternate	Girish Basrur
	Alternate	Duane Grigsby
	Alternate	Alan Spalding
	Alternate	Gourangadoss Sundar
	Alternate	Andrew Vasquez
	Alternate	Kathy Cabellero
	Alternate	Ali Khwaja
	Alternate	Stephen Lam
	Alternate	Trinh Nguyen
TE Connectivity	Principal	Nathan Tracy
	Alternate	Jeff Mason
	Alternate	Melissa Knox

	Alternate	Andy Nowak
Viavi	Principal	Jason Rusch
	Alternate	George Bullis
	Alternate	Paul Gentieu
	Alternate	Scott Baxter

### A.1.3 Advisory Members

The following is the list of organizations that are advisory (i.e., nonvoting) members of record for regular meeting #142 of the INCITS Fibre Channel (T11) Technical Committee, including the recognized representatives of each member organization:

Organization	Representative Type	Representative
Anritsu	Principal	Ken Mochizuki
Ciena	Principal	Stephen Shew
	Alternate	Sebastien Gareau
Futurewei	Principal	Philip Kufeldt
	Alternate	Xu Qi Ming
	Alternate	Xin Qiu
Hitachi Data Systems	Principal	Eric Hibbard
	Alternate	Vincent Franceschini
	Alternate	Michael Hay
	Alternate	Akinobu Shimada
	Alternate	Ken Wood
Keysight Technologies	Principal	Joachim Vobis
	Alternate	Stephen Didde
	Alternate	Steve Sekel
	Alternate	Hajime Takahashi
Lumentum	Principal	Dave Lewis
MediaTek USA	Principal	Ali Tamer

Microsoft	Principal	Lee Prewitt
	Alternate	Steve Olsson
	Alternate	Paul Luber
Oclaro	Principal	Kohichi Tamura
Panduit	Principal	Jose Castro
	Alternate	Bulent Kose
	Alternate	Steve Skiest
	Alternate	Robert Reid
Semtech Canada	Principal	David Brown
	Alternate	Ed Frlan
	Alternate	Francois Tremblay
SmartDV	Principal	Deepak Kumar Tala
Teledyne LeCroy	Principal	David Rodgers
	Alternate	Henry Poelstra
Unisys	Principal	Jeffrey Dremann
	Alternate	Phil Shelton
VMWare	Principal	Neil MacLean
	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 #142 of the INCITS Fibre Channel (T11) Technical Committee:

<b>Organization</b>	<b>Representative(s)</b>
BROADCOM	James Smart
BROCADE	David Peterson
	Steven L. Wilson

CISCO	Mike Blair
COMMSCOPE	Yang Xu
CORNING INC	Doug Coleman
DATA CENTER SYSTEMS	Zach Nason
DELL INC	Louis Ricci
	Erik Smith
	Alan Rajapa
FOXCONN INTERCONNECT	John Petrilla
FUJITSU AMERICA INC	Mark Malcolm
GLOBALFOUNDRIES	Adrian Butter
HEWLETT PACKARD ENTERPRISE	Barry Maskas
IBM	Patty Driever
MACOM	Tom Palkert
MOLEX	Jay Neer
NETAPP	Frederick Knight
OFS	Roman Shubochkin
PANDUIT CORPORATION	Jose Castro
QLOGIC	Craig W. Carlson
TE CONNECTIVITY	Jeff Mason
VIAVI	Jason Rusch

**A.2.2 Nonmember organizations**

The following is the list of nonmember organizations and their representatives recorded in the online attendance registry as attending regular meeting #142 of the INCITS Fibre Channel (T11) Technical Committee:

Organization	Representative(s)
	None

### A.2.3 Ad hoc meeting attendance

FC-NVMe ad hoc, members

Organization	Representative(s)
BROADCOM LIMITED	David Baldwin
	James Smart
BROCADE	David Peterson
	Steven L. Wilson
	Howard Johnson
CISCO	Mike Blair
DELL INC	Lou Ricci
	Erik Smith
	Alan Rajapa
FUJITSU AMERICA	Mark Malcolm
HPE	Barry Maskas
IBM	Patty Driever
	Roger Hathorn
NETAPP	Frederick Knight
QLOGIC	Craig Carlson
VIAMI	Jason Rusch

FC-SW-7 ad hoc, members

Organization	Representative(s)
BROADCOM	David Baldwin
BROCADE	Howard Johnson
	David Peterson
	Steven L. Wilson

CISCO	Mike Blair
DELL	Lou Ricci
	Erik Smith
	Alan Rajapa
FUJITSU AMERICA	Mark Malcolm
HPE	Barry Maskas
IBM	Patty Driever
	Roger Hathorn
NETAPP	Frederick Knight
QLOGIC	Craig W. Carlson
VIAVI	Jason Rusch

FC-PI-7 ad hoc, members

<b>Organization</b>	<b>Representative(s)</b>
BROADCOM LIMITED	Ben Chu
BROCADE	Scott Kipp
COMMSCOPE	Yang Xu
CORNING INC	Doug Coleman
DCS	Zach Nason
FOXCONN INTERCONNECT	John Petrilla
GLOBALFOUNDRIES	Adrian Butter
OFS	Roman Shubochkin
PANDUIT	Jose Castro
QLOGIC	Raul Oteyza
TE CONNECTIVITY	Jeff Mason

FC-GS-8 ad hoc, members

<b>Organization</b>	<b>Representative(s)</b>
BROADCOM	David Baldwin
BROCADE	Howard Johnson
	David Peterson
	Steve Wilson
CISCO	Mike Blair
DELL INC	Lou Ricci
	Erik Smith
	Alan Rajapa
FUJITSU AMERICA	Mark Malcolm
HPE	Barry Maskas
IBM	Roger Hathorn
	Patty Driever
NETAPP	Frederick Knight

QLOGIC	Craig Carlson
VIAMI	Jason Rusch

FC-LS-4 ad hoc, members

Organization	Representative(s)
BROADCOM	David Baldwin
	James Smart
BROCADE	Howard Johnson
	Steve Wilson
	Dave Peterson
CISCO	Mike Blair
DELL INC	Lou Ricci
	Erik Smith
	Alan Rajapa
FUJITSU AMERICA	Mark Malcolm
HPE	Barry Maskas
IBM	Roger Hathorn
	Patty Driever
NETAPP	Fred Knight
QLOGIC	Craig Carlson
VIAMI	Jason Rusch

FC-FS-5 ad hoc, members

Organization	Representative(s)
BROADCOM	David Baldwin
BROCADE	Howard Johnson
	Steve Wilson
	David Peterson
CISCO	Mike Blair

DELL INC	Lou Ricci
	Erik Smith
	Alan Rapaja
FUJITSU AMERICA	Mark Malcolm
HPE	Barry Maskas
IBM	Roger Hathorn
	Patty Driever
NETAPP	Frederick Knight
QLOGIC	Craig Carlson
VIAVI	Jason Rusch

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

BROADCOM LIMITED	David Baldwin
BROCADE	Scott Kipp
	Steve Wilson
CISCO	Mike Blair
COMMSCOPE	Yang Xu
DCS	Zach Nason
FUJITSU	Mark Malcolm
GLOBALFOUNDRIES	Adrian Butter
HPE	Barry Maskas
IBM	Patty Driever
NETAPP	Fred Knight
QLOGIC	Craig Carlson
	Raul Oteyza
	Dean Wallace
TE CONNECTIVITY	Jeff Mason
VIAVI	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 #142 held on 10 August 2017.

Standard	Status	Action	Target or Reaffirm Date	Editor	Ad Hoc Chair	Secretary
Projects in Development Stage						
FC-EE	At T11	To T11	Jun-17		Wallace	
FC-FS-5	In dev.	To T11.3	Oct-17	Carlson	Peterson	Driever
FC-GS-8	In dev.	To T11.3	Aug-17	Rusch	Ricci	Dickerson
FC-LS-4	In dev.	To T11	Jun-17	Carlson	Ricci	Driever
FC-NVMe	In dev.	To T11	Jun--17	Peterson	Carlson	Hathorn
FC-PI-7	In dev.	To T11.2	Jun-17	Castro	Wallace	Wallace
FC-SW-7	In dev.	To T11.3	Aug-17	Peterson	Carlson	Peterson
MSQS-3	In dev.	ToT11.2	Oct-17	Castrob	Wallace	Wallace
FC-NVMe-2	In dev.	ToT11	Jun-18	Peterson	Carlson	Hathorn
Projects in Approval Stage						
FC-GS-7	At INCITS	End 2 <sup>nd</sup> PR	Apr-17	Rusch	Ricci	Dickerson
FC-LS-3	At INCITS	1 <sup>st</sup> PR	Jun-17	Carlson	Peterson	Driever
FC-SB-6	At INCITS	End 1 <sup>st</sup> PR	Jun-17	Driever	Hathorn	Dickerson

## B.2 T11 project status at ISO

The following tables indicates the status of all active T11 projects at ISO. It reflects the official status as reported at the T11 regular meeting #142, 10 August 2017 in document T11-2017-00252-v000.

### B.2.1 Active T11 SC25 WG4 Projects

JTC1/SC25 Project	Document	ISO/IEC # (T11 allocated)	Step	Status
1.25.13.19.x	FC-BaseT	14165-151	40.99	Comments received from Central Office
1.25.13.19.x	FC-SP-2+AM1	14165-432	?	Need to determine status
1.25.13.19.x	FC-BB-6	14165-246	00.60	Need to determine status
1.25.13.19.x	FC-SB-5	14165-225	00.60	Need to determine status

### B.2.2 Active Miscellaneous WG4 Projects

JTC1/SC25 Project Num	Document	ISO/IEC # (T11 allocated)	Step	Status

### B.2.3 Published WG4 Projects

JTC1/SC25 Project Num	Document	ISO/IEC #	Step	Status	Maintenance
1.25.13.13.x	SMI-S v1.5	24775:2012	60.60	Published	
1.25.13.13.49	FC-AE-ASM	14165-313	60.60	Published	
1.25.13.13.50	FC-AE-RDMA	14165-314	60.60	Published	
1.25.13.13.30	FC-BB-3	14165-243	60.60	Published	

1.25.13.22	Server Management Command Line Protocol (SM-CLP)	13187	60.60	Published	Confirm – Aug16
1.25.13.19.01	Storage Management	24775	60.60	Published	
1.25.13.13.47	FC-MI-2	14165-372	60.60	Published	
1.25.13.21	iSCSI Management API (IMA)	11989	60.60	Published	Confirm-Jun15
1.25.13.13.25	FC-SW-3	14165-133	60.60	Published	Confirm – Apr15
1.25.13.13.18	FC-AV	14165-321	60.60	Published.	Confirm-Dec14
1.25.13.13.19	FC-AE-1553	14165-312	60.60	Published.	
1.25.13.13.29	FAIS	14165-521	60.60	Published.	Confirm-Feb14
1.25.13.13.15	FC-GS-4	14165-414	60.60	Published	
1.25.13.13.22	FC-FS	14165-251	60.60	Published	Withdrawn - Feb. 2013
1.25.13.13.26	FC-VI	14165-331	60.60	Published	
1.25.13.13.27	10GFC	14165-116	60.60	Published	Stabilize-Apr16
1.15.13.13.28	MJSQ	14165-117	60.60	Published	
1.25.13.10.18	RL	24740	60.60	Published	
1.25.13.19	SMS (was SMI-S)	24775	60.60	Published	
1.25.13.20	SNIA MMA	11002	60.60	Published	Confirm - Aug. 2013
1.25.13.13.27-1	10GFC-Amendment 1	14165-116-1	60.60	Published	
1.25.13.13.06-1	FC-AL-2-1	14165-122	60.60	Published.	
1.25.13.13.06-2	FC-AL-2-2	14165-122	60.60	Published	

### B.2.4 ISO step codes

The following explains the ISO step codes (ISC), which are two numbers separated by a dot. The first number is described in the table. The second part is percent complete.

Stage	NWIP	Convert to ISO	FCD	Edit/DoC	FDIS	Edit/DoC	Publish
Ballot Time	2 months		4 months		2 months		
first number of ISC	10	20	40		50	60	60.60