



InterNational Committee for Information Technology Standards
(INCITS) Secretariat: Information Technology
Industry Council (ITI) 1101 K Street NW, Suite 610,
Washington, DC 20005

www.INCITS.org



T11-2018-00294-v000

**Draft Minutes
INCITS Fibre Channel (T11) Technical Committee
Regular Meeting #149
04 October 2018 – 1 PM to 4 PM CDT
New Orleans, LA**

1 Opening Remarks and Introductions

1.1 Introductory Remarks

TC T11 chair Steve Wilson (Broadcom) convened regular meeting #149 of the INCITS Fibre Channel (T11) Technical Committee on Thursday, 04 October 2018 at 1:01 PM CDT. He introduced himself, and thanked our host Shelby Laramy and FCIA 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 T11-2018-00257-v000. The chair presented the agenda with final updates as T11-2018-00257-v001 and made a call for any changes and new agenda items. No changes or new items were requested.

Dave Peterson (Broadcom) moved and Tom Palkert (Molex) seconded that T11-2018-00257-v001 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:

Vipul Bhatt was added as Principal for Finisar Corporation, and Richard Johnson and Chris Yien were removed as representatives. Other representation for Finisar remains the same.

Michael Dudek and Rick Hicksted Jr. were added as Alternates for Marvell Semiconductor. All other representation for Marvell remains the same.

3.3 New Voting Memberships

- None for this meeting cycle.

3.4 Voting memberships in jeopardy for attendance

- **Macom** was in jeopardy for non-attendance, but was present so retains voting membership at this meeting.
- **Keysight** was in jeopardy for non-attendance, and is not present so loses voting membership effective this meeting.

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 (T11-2018-00236-v000).

3.7 Membership for this meeting

Technical Committee T11 had 20 voting members at the T11 regular meeting 16 August 2018. With one member losing voting membership, the voting membership of T11 is now 19 effective 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 19. One third of the total membership for this meeting is 7. The number of member organizations that responded to the call for quorum was 15. 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 #148

The prior regular meeting of the INCITS Fibre Channel (T11) Technical Committee was #148 on 16 August 2018. The draft Minutes of that meeting were posted as document T11/2018-00249-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. No corrections were requested.

Greg McSorley (SFF) moved and Dave Peterson (Broadcom) seconded to accept T11/2018-00249-v000 as the Minutes of T11 meeting #148 on 16 August 2018. The motion passed by acclamation.

See action item [18-022](#).

6 Review of Old Action Items

18-017	T11 secretary to post approved Minutes of T11 meeting #147 as agreed at T11 meeting #148. (See clause 5) Completed by posting T11-2018-00255-v000 on August 30, 2018.
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18-018	T11 chair to forward FC-PI-7, having passed letter ballot, to INCITS for further processing. (See clause 8 and clause 10.2). Completed by email to Rachel Porter on September 10, 2018 (T11-2018-00260-v000).
18-019	T11 chair to forward FC-NVMe-AM1 having passed letter ballot, to INCITS for further processing. (See clause 8) Completed by email to Rachel Porter on August 28, 2018 (T11-2018-00254-v000).
18-020	T11 chair to send FC-RDMA project proposal to INCITS for further processing. (See clause 11.2 .) Completed by email to Rachel Porter on August 28, 2018 (T11-2018-00253-v000).
18-021	T11 vice-chair to update meeting schedule on ICMS with new 2019 meeting venue as voted. (See clause 19.4) Completed by posting to ICMS on September 04, 2018.

7 Review of T11 Project and Proposal Status

7.1 Project Proposals

7.1.1 The FC-RDMA project has been approved by INCITS and assigned project number INCITS 564.

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 (T11-2018-00297-v000)

Task Group chair Tom Palkert (Macom) gave the report posted as T11-2018-00297-v000 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 (T11-2018-00302-v000)

Task Group chair Craig Carlson (Marvell) presented the information posted as T11-2018-00302-v000 on activity at T11.3.

11.2 Actions

There were no actions requested during this plenary meeting cycle.

11.3 Other Items

No other items were presented for TG T11.3.

12 Joint TG T11.2 / T11.3 Items

No joint T11.2 – T11.3 meeting was held during this meeting cycle.

13 T11 project activities

None for this meeting cycle.

14 Review of International Activity

14.1 INCITS SC 25 / WG4 TAG Status Report (T11-2018-00290-v000)

T11 International Representative Dave Peterson (Broadcom) presented the information posted as T11-2018-00290-v000 on INCITS SC 25 / WG4 TAG project status (see [annex B.2](#)).

15 T11 New Business

No new business was proposed during this meeting cycle.

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 (T11-2018-00252-v000), INCITS Liaison report (T11-2018-00263-v000)

Steve Wilson (Broadcom) presented the information posted as T11-2018-00252-v000 on activity at T11 as reported to other organizations, and the information posted as T11-2018-00263-v000 on activity at INCITS other than T11 project status.

17.2 TC T10 (T11-2018-00300-v000)

Frederick Knight (NetApp) gave report T11-2018-00300-v000 on activity at T10.

17.3 FCIA (T11-2018-00286-v000)

Chris Lyon (Amphenol) gave report T11-2018-00286-v000 on activity at FCIA.

17.4 IEEE 802.3 (T11-2018-00288-v000)

Tom Palkert (Macom) presented IEEE 802.3 liaison report T11-2018-00288-v000.

17.5 INCITS TC CS1 (none)

No report on activities of INCITS Technical Committee CS1 was received.

17.6 SNIA and DMTF (T11-2018-00285-v000)

Fred Knight (NetApp) discussed report T11-2018-00285-v000 on SNIA and DMTF activities.

17.7 NVMe (verbal)

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

17.8 COBO (none)

No report on COBO activity was given during this plenary meeting cycle. T11 Chair will send email to INCITS Secretariat requesting agreement that COBO should be removed from the T11 agenda.

See action item [18-023](#).

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)

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. 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 SFF/SNIA and Greg McSorley in Raleigh, NC, 03-07 December 2018.

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 2018–2019 meeting schedule

The chair announced the following schedule for 2018-2019.

Date	Location	Host Organization	Host Person
August 13-17, 2018	Louisville, KY	Amphenol	Chris Lyon
October 1-5, 2018	New Orleans, LA	FCIA	Shelby Laramy
December 3-7, 2018	Raleigh, NC	SFF/SNIA	Greg McSorley
February 4-8, 2019	Ft. Worth, TX	Teledyn-LeCroy	Dave Rogers
April 8-12, 2019	Deerfield Beach, FL	Macom	Tom Palkert
June 3-7, 2019	La Jolla, CA	Broadcom	Steve Wilson
August 12-16, 2019	Santa Fe, NM	Marvell	Craig Carlson
October 7-11, 2019	Couer d’Alene, ID	FCIA	Shelby Laramy
December 2-6, 2019	(tbd)	(tbd)	

19.4 Approval of Meeting Venues

Dave Rodgers (Teledyne LeCroy) indicated that he was unable to find a venue that met the expense guidelines in Austin or San Antonio for February 2019, so he needs to change the venue location to Ft. Worth, TX.

Craig Carlson also announced that Marvell would like to host the August 2019 meetings in Santa Fe, NM.

Steve Wilson (Broadcom) moved and Chris Lyon (Amphenol) seconded to approve that the February 2019 meetings be held in Ft. Worth, TX hosted by Teledyne LeCroy and the August 2019 meetings be held in Santa Fe hosted by Marvell.

A show-of-hands vote was taken, with 15 affirming, 0 opposing, and 0 abstaining.

See action item [18-024](#).

19.5 Next meeting information

The chair reminded the membership that the next T11 plenary week is hosted by SNIA/SFF and Greg McSorley in Raleigh, NC, 03-07 December 2018. 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 December 2018.

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 2018 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 December 2018.

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 #149 is shown in annex A.2. 21 people from 15 member organizations were in attendance.

21 Review of Action Items

18-022	T11 secretary to post approved Minutes of T11 meeting #148 as agreed at T11 meeting #149. (See clause 5)
18-023	T11 chair to request INCITS Secretariat agreement for removal of COBO from the T11 agenda. (See clause 17.8)
18-024	T11 vice-chair to update meeting schedule on ICMS with new 2019 meeting venues as voted. (See clause 19.4)

22 Adjournment

Dave Peterson (Broadcom) moved to adjourn at 2:06 PM, seconded by Dave Rodgers (Teledyne-LeCroy). 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 #149 of the INCITS Fibre Channel (T11) Technical Committee, including the recognized representatives of each member organization:

Organization	Representative Type	Representative
Amphenol	Principal	Gregory McSorley
	Alternate	Brad Brubaker
	Alternate	Mike Davis
	Alternate	Daniel Dillow
	Alternate	Chris Lyon
	Alternate	Alex Persaud
	Alternate	Hu Silver
	Alternate	Michael Wingard
Broadcom Limited	Principal	Steven L. Wilson

	Alternate	David Baldwin
	Alternate	Evan Beauprez
	Alternate	Ben Chu
	Alternate	Adam Healey
	Alternate	Howard Johnson
	Alternate	Mark Jones
	Alternate	Scott Kipp
	Alternate	Anil Mehta
	Alternate	David Peterson
	Alternate	Rob Peterson
	Alternate	James Smart
Cisco	Principal	Mike Blair
	Alternate	Harsha Bharadwaj
	Alternate	Rajesh L G
	Alternate	Fabio Maino
	Alternate	J Metz
	Alternate	Landon Noll
Commscope	Alternate	Joe Pelissier
	Principal	Yang (Sunny) Xu
	Alternate	Gary Gibbs
	Alternate	Gary Irwin
Corning	Alternate	Paul Kolesar
	Principal	Doug Coleman
DCS	Alternate	Steven E. Swanson
	Principal	Kevin Ehringer
	Alternate	Zach Nason
Dell	Alternate	Todd Wheeler
	Principal	Louis Ricci
	Alternate	David Black
	Alternate	Gaurav Chawla
	Alternate	Alan Rajapa

	Alternate	Erik Smith
	Alternate	Joseph White
	Alternate	Jeff Young
Finisar	Principal	Chris Yien
	Alternate	Richard Johnson
	Alternate	Jonathan King
Foxconn Interconnect Technologies	Principal	John Petrilla
	Alternate	Eric Chu
	Alternate	Fred Fons
	Alternate	Glenn Moore
	Alternate	William Peters
Fujitsu America Inc	Principal	Mark Malcolm
	Alternate	Kun Katsumata
	Alternate	Osamu Kimura
	Alternate	Eugene Owens
Global Foundries	Principal	Adrian Butter
	Alternate	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
Macom	Principal	Tom Palkert
Marvell Semiconductor Inc	Principal	Craig W. Carlson
	Alternate	Anshul Agarwal
	Alternate	Girish Basrur
	Alternate	Kathy Caballero
	Alternate	Robert Friend
	Alternate	Duane Grigsby

	Alternate	Ali Khwaja
	Alternate	Rick Hicksted Jr.
	Alternate	Michael Dudek
	Alternate	Stephen Lam
	Alternate	Ray Leung
	Alternate	Akinori Maeda
	Alternate	Praveen Midha
	Alternate	Trinh Nguyen
	Alternate	Raul Oteyza
	Alternate	Alan Spalding
	Alternate	Gourangadoss Sundar
	Alternate	Darren Trapp
	Alternate	Andrew Vasquez
	Alternate	Dean Wallace
NetApp	Principal	Frederick Knight
	Alternate	John Meneghini
	Alternate	Urmi Misra
OFS	Principal	Roman Shubochkin
	Alternate	Mabud Choudhury
Teledyne LeCroy	Principal	David Rogers
	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 #149 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	Victor Gissen
	Alternate	Yang Liu
	Alternate	Xu Qi Ming
	Alternate	Liu Qing
	Alternate	Xin Qiu
	Alternate	Eddy Zhou
Hitachi Vantara	Principal	Eric Hibbard
	Alternate	Vincent Franceschini
	Alternate	Michael Hay
	Alternate	Akinobu Shimada
	Alternate	Erwin van Londen
	Alternate	Ken Wood
Keysight Technologies	Principal	Stephen Didde
	Alternate	Steve Sekel
	Alternate	Hajime Takahashi
	Alternate	Joachim Vobis
Lumentum	Principal	Dave Lewis
MediaTek	Principal	Tamir Ali
	Alternate	Mau-Lin Wu
Microsoft	Principal	Lee Prewitt
	Alternate	Paul Luber
	Alternate	Steve Olsson
Molex	Principal	Alexandra Haser
	Alternate	Jay Neer
Panduit	Principal	Jose Castro
	Alternate	Bulent Kose

	Alternate	Robert Reid
	Alternate	Steve Skiest
SmartDV	Principal	Deepak Kumar Tala
	Alternate	Tamil Selvan Ramanathan
TE Connectivity	Principal	Nathan Tracy
	Alternate	Jeff Mason
Unisys	Principal	Jeffrey Dremann
	Alternate	Phil Shelton
VMWare	Principal	Neil MacLean
	Alternate	Wenchao Cui
	Alternate	Ping Huang
	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 #149 of the INCITS Fibre Channel (T11) Technical Committee:

Organization	Representative(s)
AMPHENOL	Chris Lyon
	Greg McSorley
BROADCOM	David Peterson
	Steven L. Wilson
CISCO	Mike Blair
	J Metz
COMMSCOPE	Gary Gibbs
DATA CENTER SYSTEMS	Todd Wheeler
DELL	David Black

	Alan Rajapa
FUJITSU AMERICA INC	Mark Malcolm
GLOBALFOUNDRIES	Adrian Butter
HEWLETT PACKARD ENTERPRISE	Krishna Babu Puttagunta
IBM	Patty Driever
	Roger Hathorn
MACOM	Thomas Palkert
MARVELL SEMICONDUCTOR INC	Craig W. Carlson
	Dean Wallace
NETAPP INC	Frederick Knight
TELEDYNE LECROY	David Rodgers
VIAVI	Jason Rusch

A.2.2 Ad hoc meeting attendance

FC-NVMe-2 ad hoc, members

Organization	Representative(s)
BROADCOM LIMITED	David Baldwin
	Howard Johnson
	David Peterson
	Steven L. Wilson
CISCO	Mike Blair
	J Metz
DELL	David Black
	Alan Rajapa
FUJITSU AMERICA INC	Mark Malcolm
HEWLETT PACKARD ENTERPRISE	Krishna Babu Puttagunta
IBM	Patty Driever
	Roger Hathorn
MARVELL SEMICONDUCTOR	Craig Carlson
	Raul Oteyza

NETAPP INC	Frederick Knight
VIAVI	Jason Rusch

FC-SW-7 ad hoc, members

Organization	Representative(s)
BROADCOM LIMITED	David Baldwin
	Howard Johnson
	David Peterson
CISCO	Mike Blair
FUJITSU AMERICA INC	Mark Malcolm
HEWLETT PACKARD ENTERPRISE	Krishna Babu Puttagunta
IBM	Patty Driever
	Roger Hathorn
MARVELL SEMICONDUCTOR INC	Craig W. Carlson
	Raul Oteyza
NETAPP INC	Frederick Knight
VIAMI	Jason Rusch

FC-PI-7 ad hoc, members

Organization	Representative(s)
AMPHENOL CORP	Gregory McSorley
BROADCOM LIMITED	Ben Chu
COMMSCOPE	Gary Gibbs
CORNING	Doug Coleman
DCS	Todd Wheeler
DELL INC	Alan Rajapa
GLOBALFOUNDRIES	Adrian Butter
MACOM	Tom Palkert
MARVELL	Dean Wallace

FC-GS-8 ad hoc, members

Organization	Representative(s)
BROADCOM LIMITED	David Baldwin
	Howard Johnson
	David Peterson
	Steven Wilson
CISCO	Mike Blair
	J Metz
DELL INC	Alan Rajapa
FUJITSU AMERICA INC	Mark Malcolm
HEWLETT PACKARD ENTERPRISE	Krishna Babu Puttagunta
IBM	Roger Hathorn
	Patty Driever
MARVELL SEMICONDUCTOR INC	Raul Oteyza
NETAPP INC	Frederick Knight
VIAVI	Jason Rusch

FC-LS-4 ad hoc, members

Organization	Representative(s)
BROADCOM	David Baldwin
	Howard Johnson
	Dave Peterson
CISCO	Mike Blair
DELL INC	Alan Rajapa
FUJITSU AMERICA INC	Mark Malcolm
HEWLETT PACKARD ENTERPRISE	Krishna Babu Puttagunta
IBM	Roger Hathorn
	Patty Driever
MARVELL SEMICONDUCTOR INC	Raul Oteyza
	Craig Carlson

NETAPP INC	Frederick Knight
VIAVI	Jason Rusch

FC-FS-6 ad hoc, members

Organization	Representative(s)
BROADCOM	David Baldwin
	Howard Johnson
	David Peterson
	Steve Wilson
CISCO	Mike Blair
	J Metz
DELL INC	Alan Rajapa
FUJITSU AMERICA INC	Mark Malcolm
HEWLETT PACKARD ENTERPRISE	Krishna Babu Puttagunta
IBM	Roger Hathorn
	Patty Driever
NETAPP INC	Frederick Knight
MARVELL SEMICONDUCTOR INC	Raul Oteyza
	Craig Carlson
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 #149 held on 04 October 2018.

Standard	Status	Action	Target or Reaffirm Date	Editor	Ad Hoc Chair	Secretary
Projects in Development Stage						
FC-FS-6	In dev.	To T11	Jun-19	Carlson	Peterson	Driever
FC-GS-8	In dev.	To T11	Aug-18	Rusch	Peterson	Driever
FC-LS-4	In dev.	To T11	Dec-18	Carlson	Driever	Rusch
FC-PI-7P	In dev.	ToT11	Dec-18	Castro	Wallace	Wallace
FC-PI-8	In dev.	ToT11	Dec-20	Castro	Wallace	Wallace
FC-SW-7	In dev.	To T11.3	Aug-18	Peterson	Carlson	Peterson
FC-MSQS-3	In dev.	ToT11	Dec-18	Castro	Wallace	Wallace
FC-NVMe-2	In dev.	ToT11.3	Dec-18	Peterson	Carlson	Hathorn
Projects in Approval Stage						
FC-FS-5	At INCITS	1 st PR	Dec-18	Peterson	Carlson	Driever
FC-EE	At INCITS	ANSI Approval	Oct-18	Carlson	Wallace	Wallace
FC-PI-7	At INCITS	1 st PR	Dec-18	Castro	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 #149, 04 October 2018 in document T11-2018-00290-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	14165-432	Resubmitted new work item – no project on IEC database yet
FC-BB-6	14165-246	Submit explanatory report and CD
FC-SB-6	14165-225	Submit explanatory report and CD