



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



T11-2020-00095-v000

**Draft Minutes
INCITS Fibre Channel (T11) Technical Committee
Regular Meeting #158
09 April 2020 – 1 PM to 3 PM EDT
Virtual Meeting**

1 Opening Remarks and Introductions

1.1 Introductory Remarks

TC T11 chair Steve Wilson (Broadcom) convened regular meeting #158 of the INCITS Fibre Channel (T11) Technical Committee on Thursday, 09 April 2020 at 1:01 PM EDT. He introduced himself and thanked our host Marvell for the virtual meeting facilities. He also thanked Chris Lyon for working with the hotel to cancel the originally scheduled meeting facilities.

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 T11-2020-00063-v001. The chair presented the agenda with final updates as T11-2020-00063-v002 and made a call for any changes and new agenda items. No changes or new items were requested.

Dave Peterson (Broadcom) moved and Roger Hathorn (IBM) seconded that T11-2020-00063-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:

- Dave Baldwin was removed as Alternate for Broadcom. Other representation for Broadcom remains the same.
- J Metz was removed as Alternate for Cisco Systems Inc.. Sumanth Sindiri was added as

- an Alternate for Cisco. Other representation for Cisco remains the same.
- Paul Kolesar was removed as Alternate for CommScope. Other representation for CommScope remains the same.
- Darren Trapp was removed as Alternate for Marvell Semiconductor, Inc. Other representation for Marvell remains the same.
- Steve Skiest was removed as Alternate for Panduit Corporation. Other representation for Panduit remains the same.

3.3 New Voting Memberships

- No new voting memberships were granted at this meeting.

3.4 Voting memberships in jeopardy for attendance

- **Global Foundries** was in jeopardy for non-attendance but has lost membership due to non-payment of dues (see **3.5**).

Notification of membership jeopardy by T11 Chair was sent via email on February 19, 2020 (T11-2020-00060-v000).

3.5 Voting memberships in jeopardy for non-payment of dues

- **Global Foundries** membership was terminated due to non-payment of dues.

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 06 February 2020. With one member losing voting privileges (see 3.5), 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 #157

The prior regular meeting of the INCITS Fibre Channel (T11) Technical Committee was #157 on 06 February 2020. The draft Minutes of that meeting were posted as document T11/2020-00046-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.

Dave Peterson (Broadcom) moved and Roger Hathorn (IBM) seconded to accept T11/2020-00046-v000 as the Minutes of T11 meeting #157 on 06 February 2020. The motion passed by acclamation.

See action item [20-003](#).

6 Review of Old Action Items

20-001	T11 secretary to post approved Minutes of T11 meeting #156 as agreed at T11 meeting #157. Completed by posting T11-2020-00078-v000 on April 07, 2020.
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20-002	T11 chair to request INCITS Secretariat initiate an RFC ballot on the FC-PI-7P draft standard Rev. 1.00 contained in T11-2020-00003-v001 . Completed by email to Rachel Porter on 11 December 2019 (T11-2019-00373-v000).
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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 None.

9 Old Business

No old business was reopened.

10 Task Group T11.2 - Physical Interfaces

10.1 Report to T11 Plenary ([T11-2020-00098-v000](#))

Task Group chair Tom Palkert (Macom) gave the report posted as T11-2020-00098-v000 on activity at T11.2.

10.2 Actions

10.2.1 Tom Palkert made a request to T11 to forward FC-PI-7P draft standard Rev 1.02 contained [T11-2020-00003-v003](#) to INCITS for further processing, including initiation of a letter ballot. See action item [20-004](#).

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 ([T11-2020-00096-v000](#))

Task Group chair Craig Carlson (Marvell) presented the information posted as T11-2020-00096-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

There was no meeting of the Joint T11.2/T11.3 working group 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 ([T11-2020-00083-v000](#))

Dave Peterson (Broadcom) presented the information posted as T11-2020-00083-v000 on INCITS SC 25 / WG4 TAG project status (see [annex B.2](#)).

15 T11 New Business

15.1 National Maintenance Review Motions ([T11-2020-00062-v000](#))

Chair Steve Wilson indicated that the T11 community was informed of the 2020 National Maintenance review by INCITS via a document dated January 14, 2020 (eb-2020-00014-v001). This document was presented at the February 2020 T11 plenary meeting. In light of this, the following motions were made to support that the following standards/technical reports be either stabilized, reaffirmed, or withdrawn according to the following motions:

Motion1: Steve Wilson (Broadcom) moved and Roger Hathorn (IBM) seconded to recommend to INCITS that the following standards be recommended for Stabilization (2/3 Meeting). The rationale for stabilization is that the standards have ongoing validity and effectiveness, but they are mature and unlikely to require maintenance of any sort:

INCITS 464-2010[R2015]	Information technology -Information Management - Extensible Access Method (XAM™)
INCITS 461-2010[R2015]	Information technology -Fibre Channel -Switch Fabric -5 (FC-SW-5)
INCITS 462-2010[R2015]	Information technology -FibreChannel -Backbone -5 (FC-BB-5)
INCITS 463-2010[R2015]	Information technology -Fibre Channel -Generic Services - 6 (FC-GS-6)

Motion carried 17 – In Favor, 0 – Opposed, 0 - Abstained

Motion 2: Steve Wilson (Broadcom) moved and Roger Hathorn (IBM) seconded to recommend to INCITS that the following standards/technical reports be recommended for Reaffirmation:

INCITS/TR-26-2000[R2015]	INCITS Technical Report for Information technology — Fibre Channel –High Speed Parallel Interface (FC-HSPI)
INCITS/TR-31-2002[S2012]	Information Technology -Fibre Channel Avionics

	Environment (FC-AE), a Technical Report prepared by INCITS and registered with ANSI
INCITS/TR-39-2005[R2015]	INCITS Technical Report for Information technology — FibreChannel –Methodologies for Interconnects -2 (FC-MI-2)
INCITS/TR-40-2005[R2015]	INCITS Technical Report for Information technology — Fibre Channel –Avionics Environment –SCSI-3 Remote Direct Memory Access (FC-AE-RDMA)
INCITS 512-2015	Information Technology -Fibre Channel -Physical Interface -6 (FC-PI-6)
INCITS 496-2012/AM 1-2015	Information Technology -Fibre Channel -Security Protocols -2 (FC-SP-2) -Amendment 1

Motion carried 17 – In Favor, 0 – Opposed, 0 - Abstained
See action item [20-005](#).

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 ([T11-2020-00061-v000](#)), INCITS Liaison report ([T11-2020-00072-v000](#))

Steve Wilson (Broadcom) presented the information posted as T11-2020-00061-v000 on activity at T11 as reported to other organizations, and the information posted as T11-2020-00072-v000 on activity at INCITS other than T11 project status.

Steve also announced that the INCITS officer's symposium has been cancelled for this year. But if anyone is interested in nominating someone for an award they can still reach out to Steve.

17.2 TC T10 (no document)

There was no T10 report given during this meeting cycle.

17.3 FCIA ([T11-2020-00087-v000](#))

Chris Lyon (Amphenol) gave report T11-2020-00087-v000 on activity at FCIA.

17.4 IEEE 802.3 ([T11-2020-00088-v000](#))

Tom Palkert (Macom) and Mabud Choudhury (OFS) gave report T11-2020-00088-v000 on activity at IEEE 802.3.

17.5 INCITS TC CS1

No report was given from INCITS TC CS1 during this meeting cycle.

17.6 SNIA and DMTF ([T11-2020-00086-v000](#))

Fred Knight (NetApp) discussed report T11-2020-00086-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 and Craig Carlson in Duluth, MN, 01-05 June 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.

Date	Location	Host Organization	Host Person
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

The chair indicated that given that this meeting is virtual we have the opportunity to move the December meeting from Tucson, AZ to Deerfield Beach, FL since no contracts have yet been signed in Tucson. Greg McSorley (Amphenol) moved, and David Rodgers (Teledyne-LeCroy)

seconded to change the December 2020 meeting venue to Deerfield Beach, Florida. Motion carried unanimously. The chair will update the meeting information on the website. See action item [20-006](#).

19.5 Next meeting information

The chair reminded the membership that the next T11 plenary week is hosted by Marvell and Craig Carlson in Duluth, MN, June 01-05, 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 June 2020. A decision will be made sometime during the month of May as to whether or not we need to resort to a virtual meeting again or not, based on conditions at that time.

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 June 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 June 2020. Craig currently supplied two meeting maps: one if we are able to meet face-to-face and a second in case we have to resort to another virtual conference.

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 #158 is shown in annex A.2. 28 people from 17 member organizations were in attendance.

21 Review of Action Items

20-003	T11 secretary to post approved Minutes of T11 meeting #157 as agreed at T11 meeting #158. (See clause 5)
20-004	T11 chair to request INCITS Secretariat initiate a letter ballot on the FC-PI-7P draft standard Rev. 1.02 contained in T11-2020-00003-v003 . See Clause 10.2 .
20-005	T1 chair to send letter to INCITS indicating the results of the motions related to National Maintenance Reviews.
20-006	T11 chair to update T11 meeting schedule on the website to reflect the change adopted at this meeting. See Clause 19.4 .

22 Adjournment

Greg McSorley (Amphenol) moved to adjourn at 2:05 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 #158 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	Daniel Dillow
	Alternate	Chris Lyon
	Alternate	Alex Persaud
	Alternate	Hu Silver
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	John Petrilla
	Alternate	James Smart
Cisco	Principal	Mike Blair
	Alternate	Mark Allen
	Alternate	Harsha Bharadwaj
	Alternate	Rajesh L G
	Alternate	Fabio Maino
	Alternate	Joe Pelissier
	Alternate	Sumanth Sindiri
Commscope	Alternate	Xiaohong Wu
	Principal	Yang (Sunny) Xu
Corning	Alternate	Gary Gibbs
	Principal	David Kozischek
DCS	Alternate	Steven E. Swanson
	Principal	Todd Wheeler
Dell	Alternate	Steve Eisele
	Principal	Alan Rajapa
	Alternate	David Black
	Alternate	David Brown
	Alternate	Gaurav Chawla
	Alternate	Erik Smith
Finisar	Alternate	Joseph White
	Alternate	Jeff Young
	Principal	Vipul Bhatt

	Alternate	Vera Koleva
	Alternate	Lance Thompson
Fujitsu America Inc	Principal	Mark Malcolm
	Alternate	Kun Katsumata
	Alternate	Osamu Kimura
	Alternate	Gene Owens
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	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 #158 of the INCITS Fibre Channel (T11) Technical Committee, including the recognized representatives of each member organization:

Organization	Representative Type	Representative
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
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 #158 of the INCITS Fibre Channel (T11) Technical Committee:

Organization	Representative(s)
AMPHENOL CORP	Chris Lyon
	Gregory McSorley

BROADCOM INC	Ben Chu
	David Peterson
	John Petrilla
	Steven L. Wilson
CISCO SYSTEMS INC	Mark Allen
	Mike Blair
COMMSCOPE	Sunny Xu
CORNING INC	David Kozischek
DATA CENTER SYSTEMS	Steve Eisele
DELL INC	Alan Rajapa
FINISAR CORP	Vera Koleva
	Lance Thompson
FUJITSU AMERICA INC	Mark Malcolm
HEWLETT PACKARD ENTERPRISE	Barry Maskas
	Krishna Babu Puttagunta
IBM CORP	Patty Driever
	Roger Hathorn
MACOM	Thomas Palkert
MARVELL SEMICONDUCTOR INC	Craig W. Carlson
	Dean Wallace
NETAPP INC	Frederick Knight
	John Meneghini
OFS FITEL LLC	Mabud Choudhury
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
	James Smart
	Steven Wilson
CISCO SYSTEMS INC	Mark Allen
	Harsha Bharadwaj
	Mike Blair
CORNING INC	David Kozischek
DELL INC	David Brown
	Alan Rajapa
FINISAR CORP	Vera Koleva
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
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	Howard Johnson
	David Peterson
CISCO SYSTEMS INC	Mark Allen
	Mike Blair
DELL INC	Alan Rajapa
FUJITSU AMERICA INC	Mark Malcolm
HEWLETT PACKARD ENTERPRISE	Barry Maskas
IBM CORP	Patty Driever
	Roger Hathorn
NETAPP INC	Frederick Knight

FC-LS-5 ad hoc, members

Organization	Representative(s)
BROADCOM INC	Howard Johnson

	Dave 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 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)
BROADCOM	David Peterson
	Howard Johnson
	Steven Wilson
CISCO	Mark Allen
	Mike Blair
DELL INC	David Brown
	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)

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

Organization	Representative(s)

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 #158 held on 09 April 2020.

Standard	Status	Action	Target or Reaffirm Date	Editor	Ad Hoc Chair	Secretary
Projects in Development Stage						
FC-FS-6	In dev.	To T11	Aug-20	Carlson	Peterson	Driever
FC-GS-9	In dev.	To T11	Dec-20	Rusch	Peterson	Driever
FC-LS-5	In dev.	To T11	Aug-20	Carlson	Driever	Rusch

FC-PI-7P	In dev.	RFC Complete	Jun-20	Rusch	Wallace	Wallace
FC-PI-8	In dev.	To T11	Dec-20	Rusch	Wallace	Wallace
FC-MSQS-3	In dev.	To T11	Dec-20	Castro	Wallace	Wallace
FC-RDMA	In dev.	To T11.	Oct.20	Peterson	Carlson	Peterson
FC-SW-8	In dev	To T11	Aug 20	Peterson	Carlson	Peterson
Projects in Approval Stage						
FC-SW-7	At INCITS	EB Approval	Jun-20	Peterson	Carlson	Peterson
FC-LS-4	At INCITS	EB Approval	Jun-20	Carlson	Driever	Rusch
FC-GS-8	At INCITS	ANSI Approval	Jun-20	Rusch	Peterson	Driever
FC-NVMe-2	In dev.	To T11	Jun-20	Peterson	Carlson	Hathorn

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 #158, 09 April 2020 in document T11-2020-00083-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"> - International (comments) due date: 12/06/2019 - TAG (comments) Deadline: 11/06/2019 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 *Published
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 *Published