



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



T11-2017-00115-v000

**Minutes Fibre Channel Protocol
(T11.3) Task Group plenary meeting #115
2017 March 30 – 10:30 to 11:30 EDT
Deerfield Beach, Florida, US**

1 Opening remarks and introductions

The chair convened plenary meeting #115 of the Fibre Channel Protocol (T11.3) Task Group on 2017 March 30 at 10:36 EST. He introduced himself as Craig Carlson (QLogic), and the group thanked Molex for the meeting facilities. Then Lou Ricci (Dell) introduced himself as vice-chair and Patty Driever (IBM) introduced herself as secretary. Members introduced themselves.

2 Approval of the Agenda

An electronic version of the agenda, [T11-2017-00089-v000](#), and supporting documents were made available among the documents for this meeting. The agenda was in HTML format with links to the appropriate supporting documents. The chair presented the agenda and made a call for any new agenda items. No new items were requested.

Jason Rusch (Viavi) moved and Dave Peterson (Brocade) seconded that [T11-2017-00089-v000](#) be approved as posted as the agenda for this meeting. The motion passed unanimously.

3 Administrative Matters

3.1 T11.3 Admin Is Trivia

The chair, Craig Carlson (QLogic), stated that T11.3 administrative information is available among the documents for this meeting: Starting with the web page (<https://standards.incits.org/apps/org/workgroup/t11.3/>), links lead to contact information for T11.3 officers, membership rules, project information, procedures and operating rules, patent rules, and internet resources. The chair recommended that members familiarize with these rules so the business of the Task Group may be conducted expeditiously. Members were advised to see any of the officers if they require additional assistance.

3.2 Document Distribution

The chair instructed those present how to access meeting documents via the INCITS T11 Web Site Center page (<https://standards.incits.org/apps/org/workgroup/t11/documents.php>). Vice-chair uploaded a zip file document containing all documents reviewed at this meeting: [T11-2017-00135-v000](#).

3.3 Other matters of grave concern

The chair instructed those present how to register using the electronic attendance list for this meeting. He reminded those present that the electronic attendance list would become the only formal record of attendance at this meeting.

4 Patents

The chair presented an overview of INCITS patent policies and guidelines, as found in INCITS Policies and Guidelines (<http://www.incits.org/standards-information/legal-info>) sub clause 8.4. In accordance with those policies, the chair made a call for patents that related to the standards being developed by this task group. Those companies wishing to file a patent declaration should send it to the chair of TC T11, with copies to Lynn Barra at INCITS (lbarra@itic.org).

5 Antitrust Policies

The chair noted that the INCITS Antitrust Guidelines applied to this task group meeting. The chair further noted that it was the responsibility of all attendees, and not just the officers, to ensure that the Guidelines are followed, and to terminate discussions if they are not. 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.

The INCITS Antitrust Guidelines are available on the INCITS web site (<http://www.incits.org/standards-information/legal-info>).

6 Attendance and Membership

6.1 Current membership list

The chair encouraged those who attend T11 meetings regularly or intend to attend T11 meetings regularly and are not T11 members to consider joining the organization.

Information on how membership is gained, maintained, and lost in any INCITS Technical Committee or Task Group may be found in INCITS Organization and Procedures (<http://www.incits.org/standards-information/policies>) sub clause 3.8. An overview of these requirements was introduced by the chair and was available to all attendees in 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. Attendance for this meeting is shown in Annex B.

6.2 *Voting memberships in jeopardy*

None

6.3 *Changes in Membership*

None

6.3.1 Changes in representation since last meeting

None

6.3.2 New voting memberships

None

6.3.3 Voting memberships changed for other reasons

None

6.3.4 Changes in advisory membership

None

6.3.5 Changes in emeritus membership

None

6.3.6 Membership for this meeting and call for quorum

Task Group T11.3 had 12 voting members at the previous T11.3 plenary meeting (December 08, 2016). At this meeting, February 09, 2016:

- 0 new voting member organizations (see 6.3.2);
- 0 reinstated voting member organization (see 6.3.3)
- 0 voting member organizations losing voting membership for not attending the required number of meetings (see 6.2); and
- 0 voting member organizations losing voting membership for other reasons (see 6.3.3), the voting membership of T11.3 remains at 12 members.

6.3.7 Quorum Call

12 members responded to the call for quorum. One third of the total membership for this meeting is 4. The number 12 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.

7 Approval of Minutes - Meeting #114

The prior plenary meeting of the Fibre Channel Protocol (T11.3) Task Group was #114 on 2017 February 09. The draft minutes of that meeting were posted as document [T11-2017-00052-v000](#).

You may review the T11.3 minutes by reviewing the version that is posted on the web site and requesting corrections either before the subsequent meeting using the Internet mail reflector (fc_protocol@standards.incits.org) or at the subsequent meeting in person. Non-editorial and/or substantial requests for corrections will be noted in detail at the next plenary meeting prior to the plenary body voting on the minutes. Until approved by the plenary body, these minutes are unofficial draft minutes only.

Gautam Shiroor (Broadcom) moved and Jason Rusch (Viavi) seconded to accept [T11-2017-00052-v000](#) as posted at this meeting as the minutes of T11.3 meeting #114 on 2017 February 09. The motion passed unanimously.

8 Review of Old Action Items

ACTION 17-001	T11.3 secretary to post T11-2017-00052-v000 as the draft minutes of T11.3 meeting #114.
ACTION 17-002	T11.3 secretary to post T11-2016-519v1 as the approved minutes of T11.3 meeting #113. See Section 7.
ACTION 17-003	T11.3 Chair to request T11 to forward FC-LS-3 (INCITS 487) revision 3.53 document number T11-2017-395v3 to T11 for further processing and approve T11-2017-00029-v000 as containing the history of omitted letter ballot comment resolutions. See Section 10.3.

All of the above action items were completed.

9 Liaison Reports

9.1 TC T11 and INCITS

T11 chair Steve Wilson (Brocade) asked if anyone wanted him to review the T11 TC report to other committees (posted as [T11-2017-00082-v000](#)). When no one requested a review of the report, Steve noted that the report is always available on the T11 web site for future inspection. Steve Wilson (Brocade) presented extracts relevant to T11.3 from the INCITS Report to T11 posted as [T11-2017-00091-v000](#).

9.2 Other liaison reports

No other liaison reports were presented.

10 Project Status

10.1 FC-FS-5

Dave Peterson (Brocade) presented the information posted as [T11-2017-00125-v000](#) about FC-FS-5 ad hoc activity since the last plenary meeting of this Task Group.

10.2 FC-GS-8

Lou Ricci (Dell) presented the information posted as [T11-2017-00129-v000](#) about FC-GS-8 ad hoc activity since the last plenary meeting of this Task Group.

10.3 FC-LS-4

Lou Ricci (Dell) presented the information posted as [T11-2017-00126-v000](#) about FC-LS-3/FC-LS-4 ad hoc activity since the last plenary meeting of this Task Group.

10.4 FC-NVMe

Craig Carlson (QLogic) presented the information posted as [T11-2017-00130-v000](#) about FC-NVMe ad hoc activity since the last plenary meeting of this Task Group.

10.5 FC-SB-6

There was no meeting of the FC-SB-6 ad hoc working group this cycle. The FC-SB-6 draft standard public review cycle completed 31 January 2017 and is now in final edit.

10.6 FC-SW-7

Craig Carlson (QLogic) presented the information posted as [T11-2017-00131-v000](#) about FC-SW-7 ad hoc activity since the last plenary meeting of this Task Group.

10.7 Joint T11.2/T11.3

Craig Carlson (QLogic) presented the information posted as [T11-2017-00119-v000](#) about the Joint T11.2/T11/3 Task Group activity since the last plenary meeting of this Task Group.

11 Other Business and Technical Items

None

12 Review T11.3 Project Status

The current project status is available among the electronically distributed meeting documents as well as on the INCITS web site (<https://standards.incits.org/apps/org/workgroup/t11.3/>). The chair asked that if the facilitators or anyone else finds errors that they inform him.

13 Future Meeting Schedule

13.1 Plan for the next meeting week

QLogic will host the next T11 meeting on 2017 June 08 in Anchorage, AK.

Refer to the INCITS T11 meeting web site page (https://standards.incits.org/apps/org/workgroup/t11/documents.php?folder_id=2202) for the meeting announcement, which will always contain the latest information on future T11.3 plenary meetings.

PLEASE NOTE: If there is any conflict between the website schedule database, and the single ASCII sheet, the database is to be considered correct.

13.2 Ad-hoc meetings

Refer to the INCITS T11 meeting web site page (https://standards.incits.org/apps/org/workgroup/t11/documents.php?folder_id=2202). This URL will always contain the latest announcements of pending work group interim meetings and teleconferences.

14 Action Items

ACTION 17-004	T11.3 secretary to post T11-2017-00115-v000 as the draft minutes of T11.3 meeting #115.
ACTION 17-005	T11.3 secretary to post T11-2017-00052-v001 as the approved minutes of T11.3 meeting #114. See Section 7.

15 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 formal record of attendance at this meeting.

16 Adjournment

Gautam Shiroor (Broadcom) moved and Jason Rusch (Viavi) seconded to adjourn at 2017 March 30 10:52 EST. The motion passed unanimously.

A Membership

Reflecting the changes at this meeting, the voting membership of T11.3 for this meeting is:

Organization	Name	Principal/ Alternate
Broadcom Limited	Gautam Shiroor David Baldwin James Smart Ben Chu Adam Healey Kumaran Krishnasamy Pat Thaler	Principal Alternate Alternate Alternate Alternate Alternate Alternate
Brocade	David Peterson Steven L. Wilson John Crandall Howard Johnson	Principal Alternate Alternate Alternate
Cisco Systems, Inc.	Claudio DeSanti Landon Noll Fabio Maino Joe Pelissier J Metz	Principal Alternate Alternate Alternate Alternate
Dell	Lou Ricci David Black Erik Smith Joseph White Gaurav Chawla Jeff Young	Principal Alternate Alternate Alternate Alternate Alternate
Fujitsu	Mark Malcolm Eugene Owens Kun Katsumata	Principal Alternate Alternate
Global Foundries	Adrian Butter John Ewen	Principal Alternate
Hewlett Packard Enterprise	Barry Maskas Krishna Puttagunta Rupin Mohan Siamack Ayandeh	Principal Alternate Alternate Alternate
IBM Corporation	Roger Hathorn Patty Driever	Principal Alternate
NetApp Inc	Frederick Knight Urmi Misar	Principal Alternate

Oracle	Roger Dickerson Joe Chen Matt Gaffney Hyon Kim Michael Roy Doug Meyers	Principal Alternate Alternate Alternate Alternate Alternate
QLogic Corporation	Craig W. Carlson Dean Wallace Raul Oteyza Darren Trapp	Principal Alternate Alternate Alternate
Viavi Solutions Inc.	Jason Rusch Scott Baxter George Bullis Paul Gentieu	Principal Alternate Alternate Alternate

Reflecting the changes at this meeting, the advisory (i.e., nonvoting) membership of T11.3 for this meeting is:

Organization	Name	Principal/ Alternate
Hitachi Data Systems	Eric Hibbard Vincent Franceschini Michael Hay	Principal Alternate Alternate
Microsoft Corporation	Lee Prewitt Paul Luber	Principal Alternate
Teledyne LeCroy Corporation	David Rodgers	Principal
Unisys Corporation	Jeffrey Dremann Phil Shelton	Principal Alternate
VMware Inc	Neil Maclean Murali Rajagopal Ahmad Tawil	Principal Alternate Alternate
Foxconn Interconnect Technologies	John Petrilla Randy Clark Glenn Moore	Principal Alternate Alternate
SmartDV Technologies India Pri	Deepak Kumar	Principal

Reflecting the changes at this meeting, 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. Gary Stephens
Mr. James Coomes
Mr. Robert Kembel
Mr. Joseph Mathis
Mr. Horst Truestedt

B Attendance

The following table lists those persons who electronically recorded their attendance at this plenary meeting. This includes representatives from voting member companies and may include representatives from non-voting advisory companies, as well as non-voting emeritus members and visitors.

This table also records the affiliations claimed by those who registered their attendance. The presence of a company or organization in the affiliation column does not imply that it is a member of T11.3, nor does it imply that

the person in attendance is a representative of that company or organization.

See “Section A: Membership” above for a complete list of voting members of T11.3 as well as a list of non-voting advisory companies and emeritus members.

Sequence	Affiliation	Name
1	AMPHENOL CORPORATION	Chris Lyon
2	BROADCOM LIMITED	Gautam Shiroor
3	BROCADE	David Peterson
4	BROCADE	Steven L. Wilson
5	CISCO	J Metz
6	DELL INC	Louis Ricci
7	FUJITSU AMERICA INC	Mark Malcolm
8	GLOBAL FOUNDRIES	Adrian Butter
9	IBM	Patty Driever
10	IBM	Roger Hathorn
11	NETAPP INC	Frederick Knight
12	ORACLE	Joe Chen
13	ORACLE	Roger Dickerson
14	QLOGIC CORP.	Craig W. Carlson
15	VIAVI SOLUTIONS	Jason Rusch

C Attendance at Ad Hoc Meetings

Organization	Representative	Member Company
Amphenol Corporation	Chris Lyon	Y
Broadcom Limited	David Baldwin	Y
Broadcom Limited	Gautam Shiroor	Y
Broadcom Limited	James Smart	Y
Brocade	Howard Johnson	Y
Brocade	David Peterson	Y
Brocade	Steven L Wilson	Y
Data Center Systems	Zach Nason	Y
Dell Inc.	Louis Ricci	Y
Fujitsu America Inc	Mark Malcolm	Y
IBM	Patty Driever	Y
IBM	Roger Hathorn	Y
NetApp	Frederick Knight	Y
Oracle	Joe Chen	Y
QLogic Corporation	Craig W. Carlson	Y
QLogic Corporation	Raul Oteyza	Y
Viavi Solutions	Jason Rusch	Y

C.2 FC-LS-4

Organization	Representative	Member Company
Broadcom Limited	Gautam Shiroor	Y
Brocade	Howard Johnson	Y
Brocade	David Peterson	Y
Brocade	Steven L Wilson	Y
Dell Inc.	Louis Ricci	Y
Fujitsu America Inc	Mark Malcolm	Y
IBM	Patty Driever	Y
IBM	Roger Hathorn	Y
NetApp	Frederick Knight	Y
Oracle	Joe Chen	Y
Oracle	Roger Dickerson	Y
Viavi Solutions	Jason Rusch	Y

C.3 FC-FS-5

Organization	Representative	Member Company
Broadcom Limited	Gautam Shiroor	Y
Brocade	John Crandall	Y
Brocade	David Peterson	Y
Brocade	Howard Johnson	Y
Brocade	Steven L. Wilson	Y
Dell Inc.	Louis Ricci	Y
Fujitsu America Inc	Mark Malcolm	Y
IBM	Patty Driever	Y
IBM	Roger Hathorn	Y
NetApp	Frederick Knight	Y
Oracle	Joe Chen	Y
Oracle	Roger Dickerson	Y
QLogic Corporation	Craig W. Carlson	Y
Viavi Solutions	Jason Rusch	Y

C.4 FC-SW-7

Organization	Representative	Member Company
Broadcom Limited	Gautam Shiroor	Y
Brocade	John Crandall	Y
Brocade	David Peterson	Y
Brocade	Howard Johnson	Y
Brocade	Steven L. Wilson	Y
CommScope	Gary Gibbs	Y
Dell Inc.	Louis Ricci	Y
Fujitsu America Inc	Mark Malcolm	Y
IBM	Patty Driever	Y
IBM	Roger Hathorn	Y
NetApp	Frederick Knight	Y
Oracle	Joe Chen	Y
Oracle	Roger Dickerson	Y
QLogic Corporation	Craig W. Carlson	Y
Viavi Solutions	Jason Rusch	Y

C.5 FC-SB-6

Organization	Representative	Member Company
No Meeting		

C.6 FC-GS-8

Organization	Representative	Member Company
Broadcom Limited	Gautam Shiroor	Y
Brocade	John Crandall	Y
Brocade	Steven L Wilson	Y
Brocade	David Peterson	Y
Brocade	Howard Johnson	Y
Dell Inc.	Louis Ricci	Y
Fujitsu America Inc	Mark Malcolm	Y
IBM	Patty Driever	Y
IBM	Roger Hathorn	Y
NetApp	Frederick Knight	Y
Oracle	Joe Chen	Y
Oracle	Roger Dickerson	Y
QLogic Corporation	Craig W. Carlson	Y
Viavi Solutions	Jason Rusch	Y

C.7 Joint T11.2/T11.3

Organization	Representative	Member Company
Amphenol Corporation	Chris Lyon	Y
Broadcom Limited	David Baldwin	Y
Broadcom Limited	Ben Chu	Y
Broadcom Limited	Gautam Shiroor	Y
Brocade	Anil Mehta	Y
Brocade	David Peterson	Y
Brocade	Howard Johnson	Y
Brocade	Steven L. Wilson	Y
CommScope	Gary Gibbs	Y
CommScope	Yang Xu	Y
Data Center Systems	Zach Nason	Y
Finisar Corp.	Richard Johnson	Y
Foxconn Interconnect Technology Ltd (FIT)	John Petrilla	Y
Fujitsu America Inc	Mark Malcolm	Y
Global Foundries	Adrian Butter	Y
IBM	Patty Driever	Y
IBM	Roger Hathorn	Y
Lumentum Operations	David Lewis	Y
NetApp Inc	Frederick Knight	Y
OFS Optics	Mabud Choudhury	Y
Oracle	Joe Chen	Y
QLogic Corporation	Dean Wallace	Y
QLogic Corporation	Michael Dudek	Y
QLogic Corporation	Raul Oteyza	Y
QLogic Corporation	Craig W. Carlson	Y
TE Connectivity	Jeff Mason	Y
Viavi Solutions	Jason Rusch	Y

