

**Approved Minutes**  
**INCITS Fibre Channel (T11) Technical Committee plenary meeting #99**  
**10 June 2010 - 1:30 PM to 4:30 PM CDT**  
**Minneapolis MN**

Version 1 Changed status but not content, per approval of draft version by meeting vote at plenary #100, 5 August 2010.

## **1 Opening remarks and Introductions**

### **1.1 Introductory Remarks**

TC T11 chair Steve Wilson (Brocade) convened plenary meeting #99 of the INCITS Fibre Channel (T11) Technical Committee on Thursday, 10 June 2010 at 1:38 PM CDT. He introduced himself, and thanked our hosts, FCIA and QLogic, for the meeting facilities and amenities.

### **1.2 Self-introductions**

The chair requested those present to introduce themselves, with identification of the organizations they represent.

### **1.3 Procedure**

#### **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 [http://www.incits.org/pat\\_slides.pdf](http://www.incits.org/pat_slides.pdf). 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 Anti-trust 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/inatrust.htm>. 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 subclause 2.2 of INCITS Policies and Guidelines ([http://www.incits.org/rd1/INCITS\\_RD1.pdf](http://www.incits.org/rd1/INCITS_RD1.pdf)).

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://www.t11.org/att>, and informed those present of the necessary password. He reminded those present that the electronic attendance list would become the only source of attendance for formal records of this meeting.

## **2 Approval of the Agenda**

An electronic version of the agenda was posted. The chair presented the agenda from document T11/10-212v2 and made a call for any changes and new agenda items. No changes or new items were requested.

Sandy Wilson (Fujitsu) moved and Horst Truedstedt (TrueFocus) seconded that T11/10-212v2 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 subclause 4.2 of INCITS Organization and Procedures (<http://www.incits.org/rd2/in081453.pdf>). An overview of these requirements was introduced by the vice 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.

### **3.2 Changes in representation since last meeting**

The following changes in member representation have been made since the last meeting:

- HP:
  - > Nadaraha (Nava) Navaruparajah becomes Alternate representative for HP.
  - > Barry Maskas remains Principal representative for HP.
  - > Sean Fitzpatrick remains Alternate representative for HP.
  - > Krishna Babu Puttagunta remains Alternate representative for HP.
  - > Bill Kerr remains Alternate representative for HP.
- Advisory member Cinch:
  - > Hecham Elkhatib becomes Principal representative for advisory member Cinch, replacing Merrick Moeller.

### 3.3 New memberships

#### 3.3.1 New voting memberships

The following organizations have met the prerequisites for membership and became voting members effective at this meeting:

- Intel:
  - > Prafulla Deuskar becomes Principal representative for Intel.
- Juniper:
  - > Simon Gordon becomes Principal representative for Juniper.
  - > Joseph White becomes Alternate representative for Juniper.
  - > Suresh Boddapat becomes Alternate representative for Juniper.

#### 3.3.2 New advisory (nonvoting) memberships

The following organizations have requested advisory membership and became advisory members effective at this meeting:

- Force10:
  - > T Sridhar becomes Principal representative for Force10.
  - > John D'Ambrosia becomes Alternate representative for Force10.
- Unisys:
  - > Jeffrey Dremann becomes Principal representative for Unisys.
  - > Diep Nguyen becomes Alternate representative for Unisys.
  - > Jose Macias becomes Alternate representative for Unisys.
  - > Phil Shelton becomes Alternate representative for Unisys.

### 3.4 Voting memberships in jeopardy for attendance

All representatives of member organizations Broadcom, Hitachi DS, Microsoft, Panduit, Symantec, and Tyco Electronics were informed by email and by document T11/10-205v1 that their organizations were in jeopardy of losing their voting memberships as the result of not attending the required number of committee meetings.

- > Representative Ali Ghiassi of Broadcom was present at this meeting. As a result, Broadcom retains voting membership in this committee.
- > Representative Eric Hibbard of Hitachi DS was present at this meeting. As a result, Hitachi DS retains voting membership in this committee.
- > Representative James Borden of Microsoft was present at this meeting. As a result, Microsoft retains voting membership in this committee.
- > Representative Bob Elliot of Panduit was present at this meeting. As a result, Panduit retains voting membership in this committee.
- > Representative Roger Cummings of Symantec was present at this meeting. As a result, Symantec retains voting membership in this committee.
- > Representative Michael Walmsley of Tyco Electronics was present at this meeting. As a result, Tyco Electronics retains voting membership in this committee.

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

No organization was in jeopardy of losing its voting membership as the result of not having paid required fees in a timely manner.

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

All representatives of member organizations Amphenol, BROADCOM, LSI, and Luxtera were informed by email and by document T11/10-217v0 that their organizations were in jeopardy of losing their voting memberships as the result of not meeting the requirements for responsiveness to letter ballots.

- No letter ballot has been completed since Amphenol entered jeopardy as the result of not meeting the requirements for responsiveness to letter ballots. As a result, Amphenol retains voting membership in this committee and remains in letter ballot jeopardy.
- No letter ballot has been completed since BROADCOM entered jeopardy as the result of not meeting the requirements for responsiveness to letter ballots. As a result, BROADCOM retains voting membership in this committee and remains in letter ballot jeopardy.
- No letter ballot has been completed since LSI entered jeopardy as the result of not meeting the requirements for responsiveness to letter ballots. As a result, LSI retains voting membership in this committee and remains in letter ballot jeopardy.
- No letter ballot has been completed since Luxtera entered jeopardy as the result of not meeting the requirements for responsiveness to letter ballots. As a result, Luxtera retains voting membership in this committee and remains in letter ballot jeopardy.

### 3.7 Membership for this meeting

Technical Committee T11 had 35 voting members at the T11 plenary meeting 1 April 2010. With

- Two new voting member organizations (see 3.3.1);
- no voting member organizations losing voting membership for not attending the required number of meetings (see 3.4);
- no voting member organizations losing voting membership for not responding to the required number of letter ballots (see 3.6);

the voting membership of T11 has increased by two members to 37 effective at 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 vice chair requested members of the press and journalists to introduce themselves.

Ralph Weber, principal representative of a T11 member organization, introduced himself as a journalist.

### 3.9 Call for Quorum

The total membership for this meeting is 37. One third of the total membership for this meeting is 13. The number of member organizations that responded to the call for quorum was 27. 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 vice chair requested those associated with organizations that are not members of T11 to introduce themselves.

### 4 Document Distribution

The vice chair described the process for T11 document distribution via the T11 Web Site. He reminded those present how to access meeting documents via the red check mark on the T11 Web Site Center page (<http://www.t11.org/t11/docreg.nsf/center>), and that documents are also available at <ftp://ftp.t11.org/latest>.

### 5 Approval of Minutes - Meeting #98

The prior plenary meeting of the INCITS Fibre Channel (T11) Technical Committee was #98 on 1 April 2010. The draft Minutes of that meeting were posted as document T11/10-152v0.

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 ([bob.nixon@emulex.com](mailto:bob.nixon@emulex.com)) or at the subsequent meeting in person.

No corrections were requested via email.

The secretary reported that there was an incorrect instance of Doug Laurence's company association. It was agreed that it should be corrected.

Horst Truedstedt (TrueFocus) moved and Roger Hathorn (IBM) seconded to accept T11/10-152v0 as modified at this meeting as the Minutes of T11 meeting #98 on 1 April 2010. The motion passed by acclamation.

See action item 10-012.

### 6 Review of Old Action Items

- 08-044 International Representative to prepare a T11 style guide that resolves issues including description of the list enumeration style and multiplication symbol.  
**In process.**  
**Status 1 April 2010: IR has prepared a style guide which he will shortly present to ISO for their concurrence.**  
**Status 10 June 2010: IR is incorporating changes as agreed after discussions with ISO. Time is scheduled for T11 member discussion during the next T11 plenary week.**
- 09-009 Secretary to determine where T11 standing rules are, or should be, documented.  
**In Process.**
- 09-010 Secretary to update standing rules, when the standing rules location is determined, to require every T11 Plenary meeting location be approved by a two-thirds vote (INCITS RD2/4.4.2.2) and that the proposer may request the result of the vote to be reconsidered by asking the T11 Chair to issue a letter ballot.  
**In Process, see T11/09-635 for a proposal.**

- 09-011 T11 vice chair to modify the instructions to prospective hosts to reflect that every T11 Plenary meeting location shall be approved by a two-thirds vote (INCITS RD2/4.4.2.2) and that the proposer may request the result of the vote to be reconsidered by asking the T11 Chair to issue a letter ballot.  
**In Process pending completion of action 09-010.**
- 09-041 T11 International Representative to notify INCITS that T11 recommends the NWIP (see T11/09-477v0) for FC-AL-2 as a US contribution to JTC1/SC25 and to approve the NWIP to be issued by SC25, answering the first 6 questions specified in table 1 'Yes', naming David Peterson as project editor, and question 7 in table 1 as "Accelerated Timeframe".  
**In Process, T11/09-501v0 assigned but not posted yet.**
- 09-045 T11 International Representative to review the admin/iso/ subdirectory of the T11 ftp server and advise the webmaster if anything should move to the protected directory.  
**In Process.**
- 10-002 T11 Chair to perform a Letter Ballot for approval of forwarding Revision 2.0 of FC-PI-5, Project 2118-D, to INCITS for first public review.  
Completed 2 May 2010. See T11/10-118v0
- 10-007 T11 Secretary to post approved Minutes of T11 meeting #97 as agreed at T11 meeting #98.  
Completed. See T11/10-057v1.
- 10-008 T11 Chair to forward T11/10-111v1 to INCITS for further processing as the project proposal for FC-MI-3, requesting that the project be assigned to T11.  
Completed by email Wilson to Bennett, 15 April 2010. See T11/10-198v0.
- 10-009 T11 International Representative to provide the appropriate notifications that INCITS TC T11 recommends to Confirm the following International Standards: ISO/IEC 11518-8:1999 (vers 2) Information technology -- High-Performance Parallel Interface -- Part 8: Mapping to asynchronous transfer mode (HIPPIATM); and ISO/IEC 11518-9:1999 (vers 2) Information technology -- High-Performance Parallel Interface -- Part 9: Serial specification (HIPPI-Serial).  
Completed by two emails Peterson to Bennett, 16 April 2010. See T11/10-200v0 and T11/10-201v0.
- 10-010 T11 chair to create appropriate liaison reports from T11 to other organizations.  
Completed. See T11/10-196v0.
- 10-011 Vice chair to update meeting calendar to reflect plenary meeting weeks in Charleston SC, February 2011 and in Philadelphia PA, April 2011.  
Completed

## 7 Review of T11 Project and Proposal Status

### 7.1 Project status review

The T11 Project status sheet was displayed (see annex C.1). The current version can be viewed at any time at [www.t11.org](http://www.t11.org), using the button "Projects".

### 7.2 New Projects

INCITS has authorized FC-MI-3 as project 2217-DT, and assigned it to T11.3.

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 FC-PI-5 to INCITS for further processing**

The question of forwarding FC-PI-5 to INCITS for further processing (T11/10-118v0) closed on 2 May 2010. It failed for lack of approval by 1/2 the members eligible to vote, with 15 Favoring, 3 Opposing, 2 Abstaining, 15 Not Voting. 2 of the favoring responses offered comments.

## **9 Old Business**

No old business was reconsidered.

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

### **10.1 Report to T11 Plenary (T11/10-297v0)**

Tom Palkert (Luxtera) presented the information posted as T11/10-297v0 on activity at T11.2.

### **10.2 Actions**

#### **10.2.1 Forward FC-PI-3 to INCITS for 2nd public review (Roll Call)**

Tom Palkert (Luxtera) moved and Richard Johnson (Finisar) seconded to accept T11/10-223v0 as the resolution of the public review comments on FC-PI-3 and to forward revision 4.0 of FC-PI-3 (T11/10-222v0), Project 1625-D, to INCITS for further processing including second public review. INCITS RD-2 requires approval of this question in accord with the 2/3 rule, as determined by roll call. The motion met the 2/3 rule, with 30 Favoring, 0 Opposing, 0 Abstaining, 7 Not Voting. The roll call record may be found in annex B.1.

See action item 10-013.

#### **10.2.2 FC-PI-6 Project Proposal (T11/10-175v0) (2/3 meeting vote)**

Tom Palkert (Luxtera) moved and Richard Johnson (Finisar) seconded to approve T11/10-175v1 as the project proposal for FC-PI-6 and to forward T11/10-175v1 to INCITS for further processing as the project proposal for FC-PI-6. INCITS RD-2 requires approval of this question in accord with the 2/3 rule, allowing a meeting vote. The motion met the 2/3 rule, with 31 Favoring, 0 Opposing, 0 Abstaining, 6 Not Voting.

See action item 10-014.

#### **10.2.3 FC-PI-5 Letter Ballot**

The TG Chair requested the T11 Chair to perform a second Letter Ballot for approval of forwarding Revision 3 of FC-PI-5 (T11/10-113v1), Project 2118-D, to INCITS for first public review.

The T11 Chair accepted. See action item 10-015.

#### **10.2.4 FC-MSQS Letter Ballot**

The TG Chair requested the T11 Chair to perform a Letter Ballot for approval of forwarding Revision 2 of FC-MSQS (T11/10-011v1), Project 1734-DT, to INCITS for first public review.

The T11 Chair accepted. See action item 10-016.

#### **10.2.5 FC-FS-3 clarification Letter Ballot**

The TG Chair requested the T11 Chair to conduct a letter ballot on approving the changes specified in T11/10-221v1 as desired clarifications to Revision 1.00 of FC-FS-3, which is now at INCITS for further processing following public review.

The T11 Chair accepted. See action item 10-019.

### **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 (T11/10-293v0)**

Craig Carlson (QLogic) presented the information posted as T11/10-293v0 on activity at T11.3.

### **11.2 Actions**

#### **11.2.1 FC-SW-6 Project Proposal (T11/10-220v1) (2/3 meeting vote)**

Craig Carlson (QLogic) moved and Dave Peterson (Brocade) seconded to approve T11/10-220v1 as the project proposal for FC-SW-6 and to forward T11/10-220v1 to INCITS for further processing as the project proposal for FC-SW-6. INCITS RD-2 requires approval of this question in accord with the 2/3 rule, allowing a meeting vote. The motion met the 2/3 rule, with 29 Favoring, 0 Opposing, 0 Abstaining, 8 Not Voting.

See action item 10-017.

#### **11.2.2 Forward FC-IFR to INCITS for 1st public review (Roll Call)**

Cisco and QLogic cast opposing votes in the letter ballot on forwarding FC-IFR to INCITS for first public review.

On behalf of Cisco, in consideration of the changes made to FC-IFR since the opposing vote was cast, Claudio DeSanti changed the position of Cisco on forwarding FC-IFR to INCITS for first public review to favoring.

On behalf of QLogic, in consideration of the changes made to FC-IFR since the opposing vote was cast, Craig Carlson changed the position of QLogic on forwarding FC-IFR to INCITS for first public review to favoring.

Craig Carlson (QLogic) moved and Dave Peterson (Brocade) seconded to accept T11/10-063v2 as the resolution of the letter ballot comments on FC-IFR and to forward Revision 1.06 of FC-IFR (T11/10-138v0), Project 1745-D, to INCITS for further processing including public review. INCITS RD-2 requires approval of this question in accord with the 2/3 rule, as determined by roll call. The motion met the 2/3 rule, with 30 Favoring, 0 Opposing, 0 Abstaining, 7 Not Voting. The roll call record may be found in annex B.2.

See action item 10-018.

### **11.2.3 FC-FS-3 clarification Letter Ballot**

The TG Chair requested the T11 Chair to conduct a letter ballot on approving the changes specified in T11/10-221v1 as desired clarifications to Revision 1.00 of FC-FS-3, which is now at INCITS for further processing following public review.

The T11 Chair accepted. See action item 10-019.

### **11.3 Other items**

No other items were presented for TG T11.3.

### **12 Joint T11.2/T11.3 Call for Issues**

No joint T11.2/T11.3 issues were discussed.

### **13 T11 project activities**

#### **13.1 Work Group SM-HBA-2**

Dave Peterson (Brocade) presented status on the progress of the SM-HBA-2 work group on storage management application program interfaces, as posted in T11/10-267v0.

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

#### **14.1 ISO Status Report (T11/10-259v0)**

David Peterson (Brocade) presented the information posted as T11/10-259v0 on project status at ISO (see annex C.2).

#### **14.2 ISO Motions (T11/10-260v0) (US roll call votes)**

##### **14.2.1 Motion 1: Recommendations to confirm standards**

Dave Peterson (Brocade) moved and Eric Hibbard (HDS) seconded that INCITS TC T11 recommends to confirm the following International Standard(s)

- > :ISO/IEC 14165-241:2005 Information technology -- Fibre Channel -- Part 241: Backbone 2 (FC-BB-2)
- > ISO/IEC 14165-222:2005 Information technology -- Fibre Channel -- Part 222: Single-byte command code 2 mapping protocol (FC-SB-2)

INCITS RD-2 requires approval of this question in accord with the 2/3 rule, as determined by roll call limited to U.S. domiciled members. The motion met the 2/3 rule, with 28 Favoring, 0 Opposing, 0 Abstaining, 9 Not Voting. The roll call record may be found in annex B.3.

See action item 10-020.

#### **14.2.2 Motion 2: Recommendations to withdraw standards**

Dave Peterson (Brocade) moved and Eric Hibbard (HDS) seconded that INCITS TC T11 recommends to withdraw the following International Standard:

- > ISO/IEC 14165-114:2005 Information technology -- Fibre Channel -- Part 114: 100 MB/s Balanced copper physical interface (FC-100-DF-EL-S)

INCITS RD-2 requires approval of this question in accord with the 2/3 rule, as determined by roll call limited to U.S. domiciled members. The motion met the 2/3 rule, with 28 Favoring, 0 Opposing, 0 Abstaining, 9 Not Voting. The roll call record may be found in annex B.4.

See action item 10-021.

#### **14.2.3 Motion 3: Recommendations to approve drafts**

Dave Peterson (Brocade) moved and Eric Hibbard (HDS) seconded that INCITS TC T11 recommends to approve ISO/IEC PDTR 14165-372, Information technology - Fibre Channel — Part 372: Methodologies of Interconnects - 2 (FC-MI-2). INCITS RD-2 requires approval of this question in accord with the 2/3 rule, as determined by roll call limited to U.S. domiciled members. The motion met the 2/3 rule, with 28 Favoring, 0 Opposing, 0 Abstaining, 9 Not Voting. The roll call record may be found in annex B.5.

See action item 10-022.

### **14.3 Other ISO Action items**

The International Representative summarized document T11/10-299, which introduced several changes to ISO standards process that may be, or may become, of importance to T11 and T10.

He also is working in coordination with ISO editorial staff on a style guide for T11 that closely follows ISO guidelines.

## **15 T11 New Business and New Technical Items**

### **15.1 2010 INCITS Awards**

INCITS annually grants awards in several categories for exemplary work toward its goals. These are described on the INCITS web site at <http://www.incits.org/criteria.htm>. The chair announced that INCITS 2010 awards were granted for work in T11, and led the membership in applauding the recipients:

#### **15.1.1 INCITS Award for Technical Excellence**

INCITS Awards for Technical Excellence were granted to David Cunningham and Adam Healey.

#### **15.1.2 INCITS Award for Service**

An INCITS Award for Service was granted to Claudio DeSanti.

#### **15.1.3 INCITS Award for Merit**

An INCITS Award for Merit was granted to Bob Nixon.

## **15.2 T11 Voting Responsibility**

The chair explained an aspect of the 2/3 voting rule that caused the ballots on forwarding FC-PI-5 and FC-SCM to have been formally disapproved, despite that in both cases, approving votes far outnumbered disapproving votes. The issue is that to pass the 2/3 voting rule, a ballot must not only be approved by 2/3 of those voting to either approve or to disapprove, but must also be approved by at least half of the members eligible to vote. In the case of FC-SCM, there was a large fraction that abstained. In the case of FC-PI-5, there was a large fraction that did not even vote.

The chair reminded all members of their obligation to be informed of the content of draft standards and participate actively in voting, advising that it would be a serious embarrassment to the committee if a ballot ever failed in this manner again.

The ballots for forwarding FC-PI-5 and FC-SCM will be repeated at an appropriate time.

## **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/patentdoc?OpenView>.

### **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 T11/10-008v0.

#### **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/patdec\\_form.doc](http://www.incits.org/patdec_form.doc).

## **17 Liaison Reports**

### **17.1 T11 report (T11/10-196v0), INCITS Liaison (T11/10-234v0)**

Steve Wilson (Brocade) presented the information posted as T11/10-196v0 on activity at T11 as reported to other organizations, and the information posted as T11/10-234v0 on activity at INCITS.

The chair accepted the action to create appropriate liaison reports from T11 to other organizations. See action item 10-023.

### **17.2 TC T10 (T11/10-213v0)**

John Lohmeyer (LSI Logic) presented the information posted as T11/10-213v0 on activity at INCITS Technical Committee T10.

### **17.3 FCIA (T11/10-296v0)**

Skip Jones (QLogic) presented the information posted as T11/10-296v0 on activity at FCIA.

### **17.4 IEEE 802.1 (T11/10-294v0)**

Claudio DeSanti (Cisco) presented the information posted as T11/10-294v0 on activity at IEEE 802.1.

### **17.5 IEEE 802.3**

No report was presented on activity at IEEE 802.3.

### **17.6 IETF (T11/10-292v0)**

David Black (EMC) presented the information posted as T11/10-292v0 on activity at IETF that was not presented at the plenary meetings of Task Groups today. He directed particular attention to the discovery that FC PseudoWire as now defined depends on 8B/10B transmission code. It thus does not support 16GFC, which uses 64B/66B transmission code. Although it is not thought to be technically infeasible to extend FC PseudoWire to cover 64B/66B, at this time there are no volunteers for the necessary work. Those who may have interest should identify themselves to a T11 officer.

### **17.7 INCITS TC CS1 (T11/10-286v0)**

Eric Hibbard (HDS) presented the information posted as T11/10-286v0 on activity at INCITS Technical Committee CS1.

### **17.8 IEEE 1619 (T11/10-289v0)**

In absence of liaison person Landon Noll (Cisco), Claudio DeSanti (Cisco) presented the information posted as T11/10-289v0 on activity at IEEE 1619.

### **17.9 SNIA and DMTF (T11/10-280v0)**

In absence of liaison person Denise Ridolfo (NetApp), Steve Wilson (Brocade) presented the information posted as T11/10-280v0 on activity at SNIA and DMTF.

### **17.10 ISO/IEC JTC1 SC25 WG3**

No report was presented on activity at ISO/IEC JTC1 SC25 WG3.

### **17.11 TIA**

No report was presented on activity at TIA.

### **17.12 IBTA**

No report was presented on activity at IBTA.

## 18 Administrative Matters

### 18.1 Officer Appointments

The officers of this Technical Committee and its Task Groups are:

T11 Chair	Steve Wilson (Brocade)
T11 International Representative	David Peterson (Brocade)
T11 Secretary	Bob Nixon (Emulex)
T11 Vice chair	Claudio DeSanti (Cisco)
T11.2 Chair	Tom Palkert (Luxtera)
T11.2 Secretary	Richard Johnson (Finisar)
T11.2 Vice-chair	Dean Wallace (QLogic)
T11.3 Chair	Craig Carlson (QLogic)
T11.3 Secretary	Landon Noll (Cisco)
T11.3 Vice-chair	Bill Martin (Emulex)

### 18.2 T11 Information Technology

#### 18.2.1 Web site status (T11/10-279v0)

The T11 Webmaster, Roger Cummings (Symantec), presented the information posted as T11/10-279v0 on the status of the T11 web site. The previously announced transition of the web site from a physical server to a new virtual server was completed ahead of schedule and with no reported ill effects. However, an issue that appears to predate the move was noticed shortly afterward: site-originated email to individuals has failed for reasons not yet determined, and no estimate could yet be made on when it would function again. Site-originated email to T11 mailing lists is functioning normally.

#### 18.2.2 Wireless status

T11 meeting wireless service appeared to have worked flawlessly again for this meeting week. No report was presented.

### 18.3 Other matters

#### 18.3.1 Editors

The chair reminded Task Group chairs and editors that he will not execute a letter ballot or a forwarding action for a draft unless the editor has archived source in the special secret editor's directory.

#### 18.3.2 Facilitators

The chair reminded work group chairs to use the correct report forms to assure that chairs and secretaries receive timely copies of their reports. This has appeared to have become consistently observed, and the work group chairs were thanked.

## 19 Future Meeting Schedule

### 19.1 Authorization of adhoc meetings

The chair directed members to the T11 web site at <http://www.t11.org/t11/meet.nsf/intmeet> for 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 Management API ad hoc work group acts directly under authorization of TC T11. It requested 2 hours, preferably adjacent to FC-GS-7, at the T11 plenary week hosted by FCIA in Chicago IL, 2-6 August 2010. This was approved.

### 19.2 Guidelines for hosting T11 meetings

The chair advised that important information for those considering hosting a T11 meeting week may be found on the T11 web site at <http://www.t11.org/t11/meet.nsf/host>. 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.

### 19.3 Request for hosts - 2010-2011

#### 19.3.1 2010-2011 schedule

The chair thanked FCIA for sponsoring so many meetings during the stressful economy. He reminded the membership that meeting weeks can be more enjoyable if sponsor volunteers assist FCIA with support for extra amenities.

The chair announced the following schedule for future meetings, and solicited volunteers for those dates that are not yet hosted:

Date	Location	Host
Aug 2-6, 2010	Chicago, IL	Chris Lyon
Oct 18-22, 2010	Bellevue, WA	Robert Griswold
Dec 6-10, 2010	Jacksonville, FL	Chris Lyon
Feb 7-11, 2011	Charleston, SC	Chris Lyon
Apr 4-8, 2011	Philadelphia, PA	Chris Lyon
Jun 6-10, 2011	Coeur d'Alene, ID	Chris Lyon
Aug 1-5, 2011	Edmonton, Alberta Canada	Chris Lyon
Oct 3-7, 2011	Albuquerque, NM	Chris Lyon
Dec 5-9, 2011	TBD	Chris Lyon

## 19.4 Approval of meeting venues

### 19.4.1 December 2011 location

Chris Lyon, in behalf of FCIA, has offered to sponsor a plenary meeting week in St. Petersburg, FL December 5-9, 2011. The rate is \$179 per night, including breakfast.

Ralph Weber (ENDL) moved and Bill Martin (Emulex) seconded to accept the offer of FCIA to sponsor a meeting week in St. Petersburg, FL December 5-9, 2011. In accord with T11 process, this motion requires a 2/3 meeting vote. The motion passed with 24 favoring, 0 opposing, 0 abstaining, 13 not voting.

### 19.4.2 2012 plenary dates

The vice chair presented recommended meeting dates for 2012. A few questions were raised, but no changes were found necessary.

Bill Martin (Emulex) moved and Lou Ricci (IBM) seconded that the 2012 meeting dates be February 6-10, April 16-20, June 4-8, August 13-17, October 1-5, and December 3-7. In accord with T11 process, this motion requires a 2/3 meeting vote. The motion passed with 24 favoring, 0 opposing, 0 abstaining, 13 not voting.

### 19.4.3 February 2012 location

Chris Lyon, in behalf of FCIA, has offered to sponsor a plenary meeting week in New Orleans LA, 6-10 February 2012.

Dave Peterson (Brocade) moved and Bob Nixon (Emulex) seconded to accept the offer of FCIA to sponsor a meeting week in New Orleans LA, 6-10 February 2012. In accord with T11 process, this motion requires a 2/3 meeting vote. The motion passed with 21 favoring, 4 opposing, 0 abstaining, 12 not voting.

The vice chair accepted the action to update the meeting calendar to reflect the approved 2012 plenary dates, a plenary meeting week in St. Petersburg, FL December 5-9, 2011 and a plenary meeting week in New Orleans LA, 6-10 February 2012. See action item 10-024.

### 19.4.4 Request from possible sponsor for June 2012

IBM is looking into sponsoring in New York lake country for June 2012. Lake Placid is more amenable, but is a two hour drive from the nearest airport. Lake George is easier to reach, but very tourist-y. A straw poll for acceptability of Lake Placid supported it, 25 favoring, 0 opposing.

## 19.5 Next meeting information, hosted by FCIA in Chicago IL, 2-6 August 2010

Chris Lyon reminded the membership that the next T11 plenary week is #100. It is hosted by FCIA in Chicago IL, 2-6 August 2010. Three companies have already volunteered to assist with amenities. He noted that detailed information about the hotel and the locale can be found on the T11 web pages at [http://www.t11.org/t11/meet.nsf/sch/\\$first](http://www.t11.org/t11/meet.nsf/sch/$first).

## 19.6 Letter to travel representatives on hotel rates (T11/10-009v0)

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, reduce 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 T11/10-009v0 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 2010 T11 meetings**

The vice chair presented the tentative meeting map of the next T11 meeting week. He advised members to refer to the T11 web site, [http://www.t11.org/t11/docreg.nsf/umap/\\$first](http://www.t11.org/t11/docreg.nsf/umap/$first), for the most recent meeting map of the next T11 plenary meeting.

### **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 plenary meeting #99 is shown in annex A.2. 40 people from 32 member organizations and no nonmember organizations were in attendance.

## 21 Review of Action Items

- 08-044 International Representative to prepare a T11 style guide that resolves issues including description of the list enumeration style and multiplication symbol.  
**In process.**  
**Status 1 April 2010: IR has prepared a style guide which he will shortly present to ISO for their concurrence.**
- 09-009 Secretary to determine where T11 standing rules are, or should be, documented.  
**In Process.**
- 09-010 Secretary to update standing rules, when the standing rules location is determined, to require every T11 Plenary meeting location be approved by a two-thirds vote (INCITS RD2/4.4.2.2) and that the proposer may request the result of the vote to be reconsidered by asking the T11 Chair to issue a letter ballot.  
**In Process, see T11/09-635 for a proposal.**
- 09-011 T11 vice chair to modify the instructions to prospective hosts to reflect that every T11 Plenary meeting location shall be approved by a two-thirds vote (INCITS RD2/4.4.2.2) and that the proposer may request the result of the vote to be reconsidered by asking the T11 Chair to issue a letter ballot.  
**In Process pending completion of action 09-010.**
- 09-041 T11 International Representative to notify INCITS that T11 recommends the NWIP (see T11/09-477v0) for FC-AL-2 as a US contribution to JTC1/SC25 and to approve the NWIP to be issued by SC25, answering the first 6 questions specified in table 1 'Yes', naming David Peterson as project editor, and question 7 in table 1 as "Accelerated Timeframe".  
**In Process, T11/09-501v0 assigned but not posted yet.**
- 09-045 T11 International Representative to review the admin/iso/ subdirectory of the T11 ftp server and advise the webmaster if anything should move to the protected directory.  
**In Process.**
- 10-012 T11 Secretary to revise and post approved Minutes of T11 meeting #98 as agreed at T11 meeting #99. See clause 5.
- 10-013 T11 Chair to forward Revision 4.0 of FC-PI-3 (T11/10-222v0), Project 1625-D, to INCITS for further processing including second public review. **See 10.2.1.**
- 10-014 T11 Chair to forward T11/10-175v1 to INCITS for further processing as the project proposal for FC-PI-6, requesting that the project be assigned to T11. **See 10.2.2.**
- 10-015 T11 Chair to perform a second Letter Ballot for approval of forwarding Revision 3 of FC-PI-5 (T11/10-113v1), Project 2118-D, to INCITS for first public review. **See 10.2.3.**
- 10-016 T11 Chair to perform a Letter Ballot for approval of forwarding Revision 2 of FC-MSQS (T11/10-011v1), Project 1734-DT, to INCITS for first public review. **See 10.2.4.**
- 10-017 T11 Chair to forward T11/10-220v1 to INCITS for further processing as the project proposal for FC-SW-6, requesting that the project be assigned to T11. **See 11.2.1.**
- 10-018 T11 Chair to forward Revision 1.06 of FC-IFR (T11/10-138v0), Project 1745-D, to INCITS for further processing including public review. **See 11.2.2.**

- 10-019 T11 Chair to conduct a letter ballot on approving the changes specified in T11/10-221v1 as desired clarifications to Revision 1.00 of FC-FS-3, which is now at INCITS for further processing following public review [See 10.2.5 and 11.2.3](#).
- 10-020 T11 International Representative to advise INCITS that INCITS TC T11 recommends to confirm International Standards ISO/IEC 14165-241:2005 Information technology -- Fibre Channel -- Part 241: Backbone 2 (FC-BB-2) and ISO/IEC 14165-222:2005 Information technology -- Fibre Channel -- Part 222: Single-byte command code 2 mapping protocol (FC-SB-2). [See 14.2.1](#).
- 10-021 T11 International Representative to advise INCITS that INCITS TC T11 recommends to withdraw International Standard ISO/IEC 14165-114:2005 Information technology -- Fibre Channel -- Part 114: 100 MB/s Balanced copper physical interface (FC-100-DF-EL-S). [See 14.2.2](#).
- 10-022 T11 International Representative to advise INCITS that INCITS TC T11 recommends to Approve ISO/IEC PDTR 14165-372, Information technology - Fibre Channel — Part 372: Methodologies of Interconnects - 2 (FC-MI-2). [See 14.2.3](#).
- 10-023 T11 chair to create appropriate liaison reports from T11 to other organizations. [See 17.1](#).
- 10-024 T11 vice chair to update the meeting calendar to reflect the approved 2012 plenary dates, a plenary meeting week in St. Petersburg, FL December 5-9, 2011 and a plenary meeting week in New Orleans LA, 6-10 February 2012. [See 19.4](#).

## 22 Adjournment

Horst Truedstedt (TrueFocus) moved and Greg McSorley (Amphenol) seconded to adjourn at 3:48 PM CDT. The motion passed unanimously.

## Annex A Membership and Attendance

### A.1 Membership for this meeting

#### A.1.1 Emeritus Members

These people have been granted Emeritus membership in INCITS Fibre Channel (T11) Technical Committee, recognizing their many years of skilled leadership and high quality technical contribution:

**Dr. William Ham**

**Mr. Schelto vanDoorn**

**Mr. Gary Stephens**

#### A.1.2 Voting Members

The following is the list of organizations that are voting members of record for plenary meeting #99 of the INCITS Fibre Channel (T11) Technical Committee, including the recognized representatives of each member organization:

Organization	Representative Type	Representative
Agilent	Principal	Joachim Vobis
	Alternate	Stephen Didde
Amphenol	Principal	Gregory McSorley
	Alternate	Michael Wingard
Avago	Principal	Randy Clark
	Alternate	David Cunningham
	Alternate	Rita Horner
	Alternate	Michael deBie
Blade	Principal	Tienwei (Tim) Chao
	Alternate	Chetan Yaliwal
BROADCOM	Principal	Ali Ghiasi
	Alternate	Pat Thaler
	Alternate	Scott Powell
Brocade	Principal	Steven L. Wilson
	Alternate	David Peterson
	Alternate	Scott Kipp

Organization	Representative Type	Representative
Cisco	Principal	Claudio DeSanti
	Alternate	Landon Noll
	Alternate	Fabio Maino
	Alternate	Joe Pelissier
	Alternate	Silvano Gai
Corning	Principal	Doug Coleman
	Alternate	Steven E. Swanson
Dell	Principal	Gaurav Chawla
	Alternate	Bhavesh Patel
	Alternate	Glenn Virball
EMC	Principal	Gary S. Robinson
	Alternate	David Black
	Alternate	Erik Smith
Emulex	Principal	Bob Nixon
	Alternate	William R. Martin
	Alternate	Hossein Hashemi
ENDL Texas	Principal	Ralph Weber
	Alternate	Dal Allan
eSilicon	Principal	Frank Barber
	Alternate	Rakesh Chadha
Finisar	Principal	Chris Yien
	Alternate	Richard Johnson
Fujitsu	Principal	Sandy Wilson
	Alternate	Eugene Owens
	Alternate	Kun Katsumata
	Alternate	Jim DeCaires
	Alternate	Osamu Kimura
	Alternate	Mark Malcolm

Organization	Representative Type	Representative
Hitachi DS	Principal	Eric Hibbard
	Alternate	Vincent Franceschini
	Alternate	Gary Pilafas
HP	Principal	Barry Maskas
	Alternate	Sean Fitzpatrick
	Alternate	Krishna Babu Puttagunta
	Alternate	Nadaraha (Nava) Navaruparajah
	Alternate	Bill Kerr
IBM	Principal	Scott Carlson
	Alternate	Roger Hathorn
	Alternate	Louis Ricci
INTEL	Principal	Prafulla Deuskar
JDS Uniphase	Principal	Dave Lewis
	Alternate	Scott Baxter
	Alternate	Tim Beyers
	Alternate	Paul Gentieu
	Alternate	Jason Rusch
Juniper	Principal	Simon Gordon
	Alternate	Joseph White
	Alternate	Suresh Boddapat
LSI	Principal	Curtis Ridgeway
	Alternate	Adam Healey
	Alternate	John Lohmeyer
Luxtera	Principal	Tom Palkert
Mellanox	Principal	Diego Crupnicoff
	Alternate	Trevor Caulder
	Alternate	Dror Goldenberg
Microsoft	Principal	Albert Chen
	Alternate	Calvin Chen
	Alternate	James Borden

Organization	Representative Type	Representative
Molex	Principal	Jay Neer
NetApp	Principal	Frederick Knight
	Alternate	Denise Ridolfo
	Alternate	Alan Yoder
Opnext	Principal	Jon Anderson
	Alternate	Josef Berger
Oracle	Principal	Roger Dickerson
	Alternate	Matt Gaffney
	Alternate	Michael Roy
	Alternate	Vit Novak
Panduit	Principal	Robert Elliot
	Alternate	Steve Skiest
	Alternate	Robert Reid
	Alternate	Gaston Tudury
QLogic	Principal	Craig W. Carlson
	Alternate	Skip Jones
	Alternate	Alan Spalding
	Alternate	Dean Wallace
	Alternate	Ed McGlaughlin
Solution Technology	Principal	Robert Kembel
	Alternate	David Deming
Symantec	Principal	Roger Cummings
	Alternate	David Dillard
Systimax	Principal	Terry Cobb
	Alternate	Paul Kolesar
TrueFocus	Principal	Horst Truedtedt
	Alternate	Jeanne Truedtedt

Organization	Representative Type	Representative
Tyco Electronics	Principal	Michael Walmsley
	Alternate	Andrew Nowak
	Alternate	Doug Lawrence
	Alternate	Michael Fogg
VMware	Principal	Lawrence Lamers
	Alternate	Winston Bumpus
	Alternate	Scott Davis

### A.1.3 Advisory Members

The following is the list of organizations that are advisory (i.e., nonvoting) members of record for plenary meeting #99 of the INCITS Fibre Channel (T11) Technical Committee, including the recognized representatives of each member organization:

Organization	Representative Type	Representative
CIENA	Principal	Martin Hunt
	Alternate	Sashi Thiagarajan
Cinch	Principal	Hecham Elkhatib
Crossroads Systems	Principal	Bill Moody
Dot Hill	Principal	Elizabeth G. Rodriguez
	Alternate	Ian Davies
DSI A*STAR	Principal	Khin Mi Mi Aung
FCI	Principal	Doug Wagner
	Alternate	David Sideck
Force10	Principal	T Sridhar
	Alternate	John D'Ambrosia
Liberty Intl	Principal	Phil Zuniga
PMC-Sierra	Principal	Brian L'Ecuyer
Seagate	Principal	Allen Kramer
	Alternate	James Coomes
	Alternate	Martin Czekalski

Organization	Representative Type	Representative
Texas Instruments	Principal	Rajeev Jain
	Alternate	Stephen Hubbins
Unisys	Principal	Jeffrey Dremann
	Alternate	Diep Nguyen
	Alternate	Jose Macias
	Alternate	Phil Shelton
Xilinx	Principal	Mark Marlett

## 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 plenary meeting #99 of the INCITS Fibre Channel (T11) Technical Committee:

Organization	Representative(s)
AGILENT TECHNOLOGIES	Joachim Vobis
AMPHENOL INTERCONNECT	Gregory McSorley
AVAGO TECHNOLOGIES	Michael deBie
BROADCOM	Ali Ghiasi
BROCADE	David Peterson
	Steven L. Wilson
CISCO SYSTEMS, INC.	Claudio DeSanti
DELL	Gaurav Chawla
EMC	David Black
	Erik Smith
	Gary S. Robinson
EMULEX	Bob Nixon
	William R. Martin
ENDL TEXAS	Ralph Weber
FINISAR CORPORATION	Richard Johnson
FUJITSU AMERICA, INC.	Sandy Wilson

Organization	Representative(s)
HEWLETT-PACKARD COMPANY	Nadaraha (Nava) Navaruparajah
HITACHI DATA SYSTEMS	Eric Hibbard
IBM	Louis Ricci
	Roger Hathorn
	Scott Carlson
INTEL CORPORATION	Prafulla Deuskar
JDSU	Jason Rusch
JUNIPER	Joseph White
LSI CORP.	John Lohmeyer
LUXTERA	Tom Palkert
MELLANOX TECHNOLOGIES	Diego Crupnicoff
MICROSOFT CORPORATION	James Borden
MOLEX	Jay Neer
NETAPP	Frederick Knight
ORACLE	Matt Gaffney
	Roger Dickerson
PANDUIT CORPORATION	Robert Elliot
QLOGIC	Dean Wallace
	Craig W. Carlson
SOLUTION TECHNOLOGY	Robert Kembel
SYMANTEC	Roger Cummings
SYSTIMAX SOLUTIONS	Terry Cobb
TRUE FOCUS, INC	Horst Truedtedt
TYCO ELECTRONICS	Michael Walmsley

### A.2.2 Nonmember organizations

No representatives of nonmember organizations were recorded in the online attendance registry as attending plenary meeting #99 of the INCITS Fibre Channel (T11) Technical Committee.

## Annex B Roll Call Vote Tallies

### B.1 Forward FC-PI-3 to INCITS for 2nd public review

The question to accept T11/10-223v0 as the resolution of the public review comments on FC-PI-3 and to forward revision 4.0 of FC-PI-3 (T11/10-222v0), Project 1625-D, to INCITS for further processing including second public review was a 2/3 majority roll call vote (see 10.2.1). The response to the roll call on the question was as follows, with “a” indicating abstention, “n” indicating opposing, “nv” indicating no vote, and “y” indicating favoring:

Organization	Representative Type	Voting Representative	Position Declared
Agilent	P	Joachim Vobis	y
Amphenol	P	Gregory McSorley	nv
Avago	A	Michael deBie	y
Blade	P	Tienwei (Tim) Chao	nv
BROADCOM	P	Ali Ghiasi	y
Brocade	A	David Peterson	y
Cisco	P	Claudio DeSanti	y
Corning	P	Doug Coleman	nv
Dell	P	Gaurav Chawla	y
EMC	A	David Black	y
Emulex	A	William R. Martin	y
ENDL Texas	P	Ralph Weber	y
eSilicon	P	Frank Barber	nv
Finisar	A	Richard Johnson	y
Fujitsu	P	Sandy Wilson	y
Hitachi DS	P	Eric Hibbard	y
HP	A	Nadaraha (Nava) Navaruparajah	y
IBM	P	Scott Carlson	y
INTEL	P	Prafulla Deuskar	y
JDS Uniphase	A	Jason Rusch	y
Juniper	A	Joseph White	y
LSI	A	John Lohmeyer	y
Luxtera	P	Tom Palkert	y

Organization	Representative Type	Voting Representative	Position Declared
Mellanox	P	Diego Crupnicoff	nv
Microsoft	A	James Borden	y
Molex	P	Jay Neer	y
NetApp	P	Frederick Knight	y
Opnext	P	Jon Anderson	nv
Oracle	P	Roger Dickerson	y
Panduit	P	Robert Elliot	y
QLogic	P	Craig W. Carlson	y
Solution Technology	P	Robert Kembel	y
Symantec	P	Roger Cummings	y
Systimax	P	Terry Cobb	y
TrueFocus	P	Horst Truedstedt	y
Tyco Electronics	P	Michael Walmsley	y
VMware	P	Lawrence Lamers	nv

## B.2 Forward FC-IFR to INCITS for 1st public review

The question to accept T11/10-063v2 as the resolution of the letter ballot comments on FC-IFR and to forward Revision 1.06 of FC-IFR (T11/10-138v0), Project 1745-D, to INCITS for further processing including public review was a 2/3 majority roll call vote (see 11.2.2). The response to the roll call on the question was as follows, with “a” indicating abstention, “n” indicating opposing, “nv” indicating no vote, and “y” indicating favoring:

Organization	Representative Type	Voting Representative	Position Declared
Agilent	P	Joachim Vobis	y
Amphenol	P	Gregory McSorley	y
Avago	A	Michael deBie	y
Blade	P	Tienwei (Tim) Chao	nv
BROADCOM	P	Ali Ghiasi	y
Brocade	A	David Peterson	y
Cisco	P	Claudio DeSanti	y
Corning	P	Doug Coleman	nv

Organization	Representative Type	Voting Representative	Position Declared
Dell	P	Gaurav Chawla	nv
EMC	A	David Black	y
Emulex	A	William R. Martin	y
ENDL Texas	P	Ralph Weber	y
eSilicon	P	Frank Barber	nv
Finisar	A	Richard Johnson	y
Fujitsu	P	Sandy Wilson	y
Hitachi DS	P	Eric Hibbard	y
HP	A	Nadaraha (Nava) Navaruparajah	y
IBM	P	Scott Carlson	y
INTEL	P	Prafulla Deuskar	y
JDS Uniphase	A	Jason Rusch	y
Juniper	A	Joseph White	y
LSI	A	John Lohmeyer	y
Luxtera	P	Tom Palkert	y
Mellanox	P	Diego Crupnicoff	nv
Microsoft	A	James Borden	y
Molex	P	Jay Neer	y
NetApp	P	Frederick Knight	y
Opnext	P	Jon Anderson	nv
Oracle	A	Matt Gaffney	y
Panduit	P	Robert Elliot	y
QLogic	P	Craig W. Carlson	y
Solution Technology	P	Robert Kembel	y
Symantec	P	Roger Cummings	y
Systemax	P	Terry Cobb	y
TrueFocus	P	Horst Truustedt	y
Tyco Electronics	P	Michael Walmsley	y
VMware	P	Lawrence Lamers	nv

### B.3 Recommendations to confirm standards

The question to confirm International Standards ISO/IEC 14165-241:2005 Information technology -- Fibre Channel -- Part 241: Backbone 2 (FC-BB-2) and ISO/IEC 14165-222:2005 Information technology -- Fibre Channel -- Part 222: Single-byte command code 2 mapping protocol (FC-SB-2) was a 2/3 majority roll call vote limited to U. S. domiciled members (see 14.2.1). The response to the roll call on the question was as follows, with "a" indicating abstention, "n" indicating opposing, "nv" indicating no vote, and "y" indicating favoring:

Organization	Representative Type	Voting Representative	Position Declared
Agilent	P	Joachim Vobis	y
Amphenol	P	Gregory McSorley	y
Avago	A	Michael deBie	y
Blade	P	Tienwei (Tim) Chao	nv
BROADCOM	P	Ali Ghiasi	nv
Brocade	A	David Peterson	y
Cisco	P	Claudio DeSanti	y
Corning	P	Doug Coleman	nv
Dell	P	Gaurav Chawla	nv
EMC	P	Gary S. Robinson	y
Emulex	A	William R. Martin	y
ENDL Texas	P	Ralph Weber	y
eSilicon	P	Frank Barber	nv
Finisar	A	Richard Johnson	y
Fujitsu	P	Sandy Wilson	y
Hitachi DS	P	Eric Hibbard	y
HP	A	Nadaraha (Nava) Navaruparajah	y
IBM	P	Scott Carlson	y
INTEL	P	Prafulla Deuskar	y
JDS Uniphase	A	Jason Rusch	y
Juniper	A	Joseph White	y
LSI	A	John Lohmeyer	y
Luxtera	P	Tom Palkert	y
Mellanox	P	Diego Crupnicoff	nv

Organization	Representative Type	Voting Representative	Position Declared
Microsoft	A	James Borden	y
Molex	P	Jay Neer	y
NetApp	P	Frederick Knight	y
Opnext	P	Jon Anderson	nv
Oracle	P	Roger Dickerson	y
Panduit	P	Robert Elliot	y
QLogic	P	Craig W. Carlson	y
Solution Technology	P	Robert Kembel	y
Symantec	P	Roger Cummings	y
Systimax	P	Terry Cobb	nv
TrueFocus	P	Horst Truedtedt	y
Tyco Electronics	P	Michael Walmsley	y
VMware	P	Lawrence Lamers	nv

#### B.4 Recommendations to withdraw standards

The question that INCITS TC T11 recommends to Withdraw International Standard ISO/IEC 14165-114:2005 Information technology -- Fibre Channel -- Part 114: 100 MB/s Balanced copper physical interface (FC-100-DF-EL-S) was a 2/3 majority roll call vote limited to U. S. domiciled members (see 14.2.2). The response to the roll call on the question was as follows, with "a" indicating abstention, "n" indicating opposing, "nv" indicating no vote, and "y" indicating favoring:

Organization	Representative Type	Voting Representative	Position Declared
Agilent	P	Joachim Vobis	y
Amphenol	P	Gregory McSorley	y
Avago	A	Michael deBie	y
Blade	P	Tienwei (Tim) Chao	nv
BROADCOM	P	Ali Ghiasi	nv
Brocade	A	David Peterson	y
Cisco	P	Claudio DeSanti	y
Corning	P	Doug Coleman	nv
Dell	P	Gaurav Chawla	nv

Organization	Representative Type	Voting Representative	Position Declared
EMC	P	Gary S. Robinson	y
Emulex	A	William R. Martin	y
ENDL Texas	P	Ralph Weber	y
eSilicon	P	Frank Barber	nv
Finisar	A	Richard Johnson	y
Fujitsu	P	Sandy Wilson	y
Hitachi DS	P	Eric Hibbard	y
HP	A	Nadaraha (Nava) Navaruparajah	y
IBM	P	Scott Carlson	y
INTEL	P	Prafulla Deuskar	y
JDS Uniphase	A	Jason Rusch	y
Juniper	A	Joseph White	y
LSI	A	John Lohmeyer	y
Luxtera	P	Tom Palkert	y
Mellanox	P	Diego Crupnicoff	nv
Microsoft	A	James Borden	y
Molex	P	Jay Neer	y
NetApp	P	Frederick Knight	y
Opnext	P	Jon Anderson	nv
Oracle	P	Roger Dickerson	y
Panduit	P	Robert Elliot	y
QLogic	P	Craig W. Carlson	y
Solution Technology	P	Robert Kembel	y
Symantec	P	Roger Cummings	y
Systimax	P	Terry Cobb	nv
TrueFocus	P	Horst Truedtedt	y
Tyco Electronics	P	Michael Walmsley	y
VMware	P	Lawrence Lamers	nv

## B.5 Recommendations to approve drafts

The question that INCITS TC T11 recommends to approve ISO/IEC PDTR 14165-372, Information technology - Fibre Channel — Part 372: Methodologies of Interconnects - 2 (FC-MI-2) was a 2/3 majority roll call vote limited to U. S. domiciled members (see 14.2.3). The response to the roll call on the question was as follows, with “a” indicating abstention, “n” indicating opposing, “nv” indicating no vote, and “y” indicating favoring:

Organization	Representative Type	Voting Representative	Position Declared
Agilent	P	Joachim Vobis	y
Amphenol	P	Gregory McSorley	y
Avago	A	Michael deBie	y
Blade	P	Tienwei (Tim) Chao	nv
BROADCOM	P	Ali Ghiasi	nv
Brocade	A	David Peterson	y
Cisco	P	Claudio DeSanti	y
Corning	P	Doug Coleman	nv
Dell	P	Gaurav Chawla	nv
EMC	P	Gary S. Robinson	y
Emulex	A	William R. Martin	y
ENDL Texas	P	Ralph Weber	y
eSilicon	P	Frank Barber	nv
Finisar	A	Richard Johnson	y
Fujitsu	P	Sandy Wilson	y
Hitachi DS	P	Eric Hibbard	y
HP	A	Nadaraha (Nava) Navaruparajah	y
IBM	P	Scott Carlson	y
INTEL	P	Prafulla Deuskar	y
JDS Uniphase	A	Jason Rusch	y
Juniper	A	Joseph White	y
LSI	A	John Lohmeyer	y
Luxtera	P	Tom Palkert	y
Mellanox	P	Diego Crupnicoff	nv

<b>Organization</b>	<b>Representative Type</b>	<b>Voting Representative</b>	<b>Position Declared</b>
Microsoft	A	James Borden	y
Molex	P	Jay Neer	y
NetApp	P	Frederick Knight	y
Opnext	P	Jon Anderson	nv
Oracle	P	Roger Dickerson	y
Panduit	P	Robert Elliot	y
QLogic	P	Craig W. Carlson	y
Solution Technology	P	Robert Kembel	y
Symantec	P	Roger Cummings	y
Systimax	P	Terry Cobb	nv
TrueFocus	P	Horst Truedtedt	y
Tyco Electronics	P	Michael Walmsley	y
VMware	P	Lawrence Lamers	nv

## Annex C Supporting Documents

### C.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 plenary meeting 10 June 2010.

Stand	Status	Action	Target or Reaffirm Date	Editor	Ad Hoc Chair
<b>Projects in Development Stage</b>					
FC-BB-6	In dev.	To T11.3	Jun-11	Peterson	DeSanti
FC-GS-7	in Dev.	T11 LB to fwd	25-Oct-11	Carlson	Nixon
FC-IFR	In dev.	To T11.3	Aug-08	Peterson	Pelissier
FC-MI-3	In dev	To T11.3	Apr-11	Peterson	Ricci
FC-SP-2	In dev.	To T11.3	Oct-10	DeSanti	Noll
SM-HBA-2	In dev.	To T11	Feb-10	Nixon	Peterson
<b>Projects in Approval Stage</b>					
FC-BB-5	At INCITS	End 1PR	Aug-09	Peterson	DeSanti
FC-DA-2	At T11	res T11 LB cmts	Aug-10	Peterson	Martin
FC-FS-3	At T11	res T11 LB cmts	Feb-10	Nixon	Martin
FC-GS-6	At INCITS	Publication	30-Apr-10	Carlson	Nixon
FC-LS-2	At T11	res T11 LB cmts	Apr-10	Carlson	Martin
FC-MSQS	T11.2 LB	To T11 LB	10-Jun-10	Johnson	Wallace
FC-PI-3	At INCITS	2PR	10-Jun-10	Ghiasi	Wallace
FC-PI-5	T11 LB	T11 LB	10-Jun-10	Hashemi	Wallace
FC-SB-4	At T11	res T11 LB cmts	Oct-09	Carlson	Hathorn
FC-SCM	At T11	res T11 LB cmts	Jun-10	Martin	DeSanti
FC-SW-5	At INCITS	End 1PR	Aug-09	Wilson	Carlson

### C.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 plenary meeting #99, 10 June 2010 in document T11/10-259v0.

### C.2.1 Active T11 SC25 WG4 Projects

JTC1/SC25 Project Num	Document	ISO/IEC # (T11 allocated)	Step	Status
1.25.13.13.49	FC-AE-ASM	14165-313	40.20	***FCD vote started.
1.25.13.13.50	FC-AE-RDMA	14165-314	40.20	***FCD vote started.
1.25.13.13.35	FC-LS	14165-261	10.99	FCD submitted 4/6/2010.
1.25.13.13.48	SM-HBA	14165-512	40.99	Revised SM-HBA submitted to ISO/IEC.
1.25.13.13.45	FC-BaseT	14165-151	10.99	FCD submitted 4/6/2010.
1.25.13.13.30	FC-BB-3	14165-243	10.99	FCD submitted 4/6/2010.
1.25.13.13.46	FC-DA	14165-341	40.20	FCD submitted 4/6/2010.
1.25.13.13.47	FC-MI-2	14165-372	40.20	FCD submitted 4/6/2010. ISO edits completed on 5/13/2010.
1.25.13.13.37	FC-PI-2	14165-142	40.20	NWIP approved, Frame source received but missing source for some figures.
1.25.13.13.44	FCSM	14165-119	10.99	FCD submitted 4/6/2010.
1.25.13.13.41	FC-SP	14165-431	40.20	Vote to approve 1st FCD submitted.
1.25.13.13.X	FC-SW-5	14165-135	00.00	NWIP in process at INCITS.
1.25.13.13.X	FC-GS-6	14165-416	00.00	NWIP in process at INCITS.
1.25.13.13.X	FC-BB-5	14165-244	00.00	NWIP in process at INCITS.
1.25.13.13.X	FC-AL-2	14165-122	00.00	NWIP will be sent to INCITS.

### C.2.2 Active SNIA SC25 WG4 Projects

JTC1/SC25 Project Num	Document	ISO/IEC # (T11 allocated)	Step	Status
1.25.13.19.01	Storage Management (SM)	24775	50.20	FCD submitted 4/6/2010. Central Office is starting to work on the FCD.
1.25.13.22	Server Management Command Line Protocol (SMCLP)	13187	40.99	Should be published soon.

### C.2.3 Active Miscellaneous WG4 Projects

JTC1/SC25 Project Num	Document	ISO/IEC # (T11 allocated)	Step	Status
1.25.13.16.01	RIO	18372	10.99	Converting document to proper ISO format.

### C.2.4 Published WG4 Projects

JTC1/SC25 Project Num	Document	ISO/IEC # (T11 allocated)	Step	Status
1.25.13.21	iSCSI Management API (IMA)	11989	60.60	Published
1.25.13.13.25	FC-SW-3	14165-133	60.60	Published
1.25.13.13.18	FC-AV	14165-321	60.00	Published.
1.25.13.13.19	FC-AE-1553	14165-312	60.60	Published.
1.25.13.13.29	FAIS	14165-521	60.60	Published.
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
1.25.13.13.26	FC-VI	14165-331	60.60	Published
1.25.13.13.27	10GFC	14165-116	60.60	Published
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
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

### C.2.5 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