

**Minutes of T11 Plenary Session #49**  
**February 7, 2002**  
**Hilton Waterfront, Huntington Beach, CA**

**1 Opening Remarks and Introductions**

The meeting was opened at 1 PM by Bob Snively of Brocade, T11 Chair.

Neil Wanamaker of Akara Corporation served as Secretary.

Bob thanked Skip Jones and QLogic for hosting these meetings.

Bob then led a round of introductions.

Bob stated that the deadline for the next T11 mailing would be 11:59 PM, February 21, 2001. The documents are to be sent to ftp.t11.org, directory t11/member/incoming. See minutes of the February or April, 1998 meetings for details on how to do this.

**2 Approval of the Agenda**

The agenda was published as 02-034v0.txt No changes were made to the agenda.

It was moved by Mike O'Donnell of McData and seconded by Charles Monia of Nishan to approve the agenda. The agenda was approved unanimously.

**3 Attendance and Membership**

**3.1 Roll Call of Members in Jeopardy (Non-attendance and Letter Ballots)**

A letter was sent to the seven companies in jeopardy (though too late for jeopardy to be enforced).

Amdahl Not represented

Genum Not represented

HP (Pedrag Spasic)

Interphase Not represented

Madison Cable (Andy Novak)

Network Appliance Not Represented

Panasonic Not represented

Tensolite Not represented

No members were dropped for non-attendance.

It was noted that T10 had devised a procedure for enforcing jeopardy for Letter Ballots (NCITS procedures specify this on a quarterly basis, which doesn't fit with the typical LB schedule); the Chair was actioned to investigate this.

**3.2 Announcement of New Members and Changes**

New members

Molex

ENDL Texas

Membership Changes

Mark Marlett of Cypress Semi added as Alternate

Ken Moe of Sun Microsystems removed as Alternate

Mai Nguyen of Sony added as Alternate

Michael Griffin of 3M added as Alternate

Dennis Talluto of SanCastle replaced Norm Harris as Principal

Bill Krieg of Lucent replaced Elizabeth as Principal

Harmel Sangha of LSI Logic replaced Michael Jenkins as Alternate

The membership of T11 stood at 66 prior to the meeting.

With the addition of 2 members and the removal of 0 members the membership stands at 68 members.

### **3.3 T11 Membership List Update**

The current membership list was displayed.

### **3.4 Membership in TC T11 & TGs T11.2 and T11.3**

*Membership open to organizations directly and materially affected by the scope of T11 that are willing to participate regularly and pay the designated service fee*

*In order to be in the voting member category, consultant organizations shall have to declare that their participation is not being funded by any organization already having voting membership.*

*Each member organization appoints one Principal representative, may appoint one or more Alternate representatives (no fee for 1st Alternate Representative)*

*Names of all representatives must be designated in writing to both the group Chair and the Secretariat (e-mail OK)*

*Memberships in the TC (T11) and the TGs are all completely separate EXCEPT:*

***A TC member organization is not assessed fees for TG memberships (even if reps are different)***

#### **GAINING & LOSING MEMBERSHIP**

*To obtain membership:*

*Fill in form(s) on the web page ([www.t11.org](http://www.t11.org)) and send to INCITS with a copy to the T11 Chair*

*Attend one Plenary meeting of the group as an Observer*

*Pay fees when invoiced (can change mailing type at time of invoice)*

*Become a member immediately following that meeting*

*Lose membership by failing to:*

*Attend 2 of 3 successive plenary meetings (jeopardy) & the plenary meeting following being warned*

*Return Letter Ballots from at least 80% of non-accelerated Letter Ballots of a calendar quarter & 80% of any non-accelerated ballots from the quarter following being warned*

*Pay the fees in the time defined by the Secretariat*

## *DOCUMENT SUBSCRIPTION SERVICE*

*Service provided by Secretariat (INCITS):*

*Have to be at least Observer of a T11 group to obtain the paper mailing (anybody can receive the cd mailing)*

*Delivered bimonthly*

*Choices are:*

*paper @ \$1000/year US/Canada, \$2000/year else*

*T11 CD-ROM @ \$300/year US/Canada, \$400/year else*

*ENDL CD\_Access @ \$480/year US/Canada, \$580/year else*

*Application form on web site ([www.t11.org](http://www.t11.org)) under the "administrative" link & the bottom of the main page, membership forms there too (all in PDF)*

*Return to INCITS Secretariat, copy to T11 & TG Officers*

## **4 Document Distribution**

### **4.1 Distribution of Approved Standards**

None

### **4.2 Maintenance Copies**

None

### **4.3 Other Documents and Presentation Materials**

The documents presented at the meeting are available from the DOCS page of the T11 website, [www.t11.org](http://www.t11.org).

## **5 Approval of Minutes - T11 Meeting #48, Austin, TX**

The minutes of meeting #48, December 6, 2001 (01-700v0), were reviewed.

Craig Carlson had pointed out that there were missing action items for forwarding of FC-AV and FC-MI.

There were comments about the attendance; in fact the attendance was completely wrong, and has been replaced with the correct data.

There was a minor edit (motion to adjourn).

It was moved by Craig Carlson of QLogic and seconded by Richard Johnson of Infineon that the minutes be approved as amended. This was passed without objection.

## **6 Review of old Action Items**

01-027. IR to take action on T11 recommendation that NCITS forward FC-PI and FC-FS when available to JTC1 for processing as international standards.

Carryover

01-028. IR to take appropriate action on T11 recommendation that NCITS withdraw FC-PH, FC-PH-2, FC-PH-3 from international standardization, as they will be replaced by FC-PI and FC-FS.

Carryover

01-033. Chair to inquire intent of new NCITS procedures regarding comment resolution. Clarify whether the commentor must respond if his vote is not changed.

Complete.

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01-036. Chair to communicate IETF liaison to IETF.

Murali has indicated a willingness to serve.

Complete. Informal liaison with IPS, as at present, appears to be appropriate.

01-041. IR to carry out T11 recommendation that the JTC1 TAG vote YES on the FC-BB NWIP from SC25.

Complete

01-042. IR to forward the latest version of FC-SB-2 to JTC1/SC25 for processing as a FCD. The proposed Project Editor is Gary S. Robinson. In addition, IR to carry out T11 recommendation to the JTC1 TAG to rescind its previous position to Fast Track this project as a NP exists.

Carryover

01-043. IR to post FC-100-TP 1.25.13.13.21 to T11 website when available

Complete

01-045. Chair to convey withdrawal of ST-API to NCITs

Complete

01-046 Roger Ronald to post HIPPI-6400-OPT rev. 2.5

Complete

01-047. Chair to conduct LB on HIPPI-6400-OPT rev.2.5

Complete

01-048. Chair to forward FC-MI rev. 1.92 (T11/01-004v8) to NCITS for further processing.

Complete

01-049. Chair to forward FC-AV rev. 1.71 (T11/01-344v2) to NCITS for further processing

Overtaken by events (to be revoted as rollcall at this meeting, as changes were substantive)

01-050. Chair to write letter to Agilent regarding patent applicable to 10GFC.

Complete

01-051. Chair to post patent letter from Agilent on website

Complete (01-695v0)

01-052. Rich Taborek to post 10GFC rev. 2.0

Complete

01-053. Chair to conduct 35-day LB on 10GFC rev. 2.0

Complete

### **7 Review of T11 Project Proposals**

None

### **8 Review of T11 Projects**

The T11 status sheet was displayed. The Chair and TG Chairs were actioned to bring this up to date.

### **9 Results of Letter Ballots**

## **9.1 10 GFC For Forwarding to INCITS**

The Letter Ballot passed with 35 Yes, 9 No, and 9 Abstaining and 12 Not Voting (5 Yes ballots included comments).

## **9.2 HIPPI-6400-OPT for Forwarding to INCITS**

Ballot closes 2/15.

## **10 Task Group T11.2 Physical Variants**

### **10.1 T11.2 Plenary Meeting Report**

Schelto van Doorn of Intel made the following report:

*The present membership is 47*

*FC0 Optical, Taborek*

*10GFC T11 LB Comment Resolution*

- o 10GFC Status Report is T11/02-084v0*
- o All Optical Technical comment responses written*
- o Need sub Task Force to prepare Class 1M vs. Class 1 material*

*FC0 Copper, Grivna*

*AMP/Tyco*

- o Presented status of ZFP connector*

*AMCC*

- o Presented results of latest OIF-SFI4-02.0 proposal*

*Seagate*

- o Presented point of interest in developing a 3x FC single-stream interface*

*10GFC External 4-Lane Copper Teleconference*

- o An interface based on XAUI is be possible.*

*MJSQ, Dennis Petrich / Allen Kramer / Bill Ham*

*Jitter Testing*

- o The realities of testing a single serial stream at 10G are producing a delay in the 10GBE specification*

*4-lane CJTPAT, Tom Lindsay, Stratos, 02-074v1*

- o Tom has uploaded a file containing a modified CJTPAT for use with 4 lane applications*

*Compliance channel, Allen Kramer, Seagate*

- o Proposed a "transmitter compliance transfer function" [TCTF] for the purpose of measuring/specifying the jitter budget at the "Beta T" point.*

- o Dean Vermeersch, Tyco, volunteered to design a practical implementation of a TCTF that meets the XAUI specifications for purposes of demonstrating this approach.*

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*FCSM (Signal Modeling), Dean Wallace, Bill Ham*

*The activity at this week's ad hoc consisted mainly of editing the document.*

*FC-PI-2, Greg McSorley*

*Progress was made.*

*Motion passed that a 4-lane 10Gb/s nominal aggregate inter-enclosure copper variant based on XAUI transceivers be included in FC-PI-2.*

*PC-PI*

*FC-PI is being prepared for second public review.*

Input from vendors on 4-lane copper connectors is solicited for the next meeting.

## 10.2 T11.2 Actions

### 10.2.1 Withdrawal of FC-CU-TR

It was moved by Ed Grivna of Cypress Semiconductor and seconded by Paul Levin of Xyratex to withdraw FC-CU 1135-DT. It was noted that there were issues about copyrights that were unresolved; much of the work has been overtaken by events.

The results of the rollcall vote were as follows:

3M	P .....	Tad Szostak	nv
3M	A .....	Michael Griffin	
	.....		
Adaptec	P .....	Neil MacLean	y
Adaptec	A .....	Mike Nguyen	
Adaptec	A# .....	Bill Lynn	
	.....		
Agilent	P .....	Narayan Ayalasomayajula	nv
Agilent	A .....	Gregg Goyins	
Agilent	A# .....	Dylan Jackson	
	.....		
Akara	P .....	Neil Wanamaker	y
	.....		
Amdahl	P .....	William Cagle	nv
Amdahl	A .....	Gary Andersen	
	.....		
AMP	P .....	Charles Brill	a
AMP	A .....	Bob Atkinson	
	.....		
Ancot	P .....	Jan V. Dedek	y
Ancot	A .....	Bart Raudebaugh	
	.....		
Andiamo	P .....	Claudio DeSanti	y
Andiamo	A .....	Dinesh Dutt	
	.....		
Boeing	P .....	Michael S. Foster	y
Boeing	A .....	Mike Dorsett	
Boeing	A# .....	Jack E. Keller	
	.....		

Brocade Comms.	P..... Robert Snively	y
Brocade Comms.	A..... Steven L. Wilson	
Brocade Comms.	A#..... Kumar Malavalli	
	.....	
Cisco	P..... David Peterson	nv
	.....	
CNT	P..... Bret Ketchum	y
CNT	A..... Mike Morandi	
CNT	A#..... Bill Collette	
	.....	
Compaq	P..... Bill Ham	y
Compaq	A..... Mark Hamel	
	.....	
Connect'y Sol'ns	P..... Robert W. Kembel	y
Connect'y Sol'ns	A..... Julie Ann Kembel	
	.....	
Corning Inc.	P..... Steven E. Swanson	
Corning Inc.	A..... Doug Coleman	a
	.....	
Crossroads Sys.	P..... Robert Griswold	
Crossroads Sys.	A..... John Tyndall	y
Crossroads Sys.	A#..... Bill Moody	
	.....	
Cypress Semi	P..... Edward Grivna	y
Cypress Semi	A..... Mark Marlett	
	.....	
	.....	
EMC	P..... Gary S. Robinson	y
EMC	A..... Greg McSorley	
	.....	
Emulex	P..... Bob Nixon	a
Emulex	A..... David Baldwin	
	.....	
ENDL Texas	P..... Ralph Weber	y
ENDL Texas	A..... Dal Allen	
	.....	
Exabyte	P..... Roger Rose	nv
Exabyte	A..... Roy Funderburk	
	.....	
FCI	P..... Kevin Oursler	nv
	.....	
FSI	P..... Gary R. Stephens	y
FSI	A..... Ralph Weber	
	.....	
Fujikura America	P..... Hari Naidu	nv
Fujikura America	A..... Suresh Roy	
	.....	
Fujitsu	P..... Mike Fitzpatrick	y
	.....	
Gadzoox	P..... ? (William R. Martin)	nv
Gadzoox	A..... Wayne Rickard	
	.....	

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General Dynamics	P .....	Robert Pedersen	y
General Dynamics	A .....	Michael Lamatsch	
	.....		
Gennum	P .....	Ken Lazaris-Brunner	nv
Gennum	A .....	Bharat Tailor	
	.....		
HICAM	P .....	Naoki Watanabe	y
HICAM	A .....	Art Edmonds	
	.....		
Hewlett Packard	P .....	Predrag Spasic	y
	.....		
IBM	P .....	John Scheible	y
IBM	A .....	Robert Dugan	
IBM	A# .....	George Penokie	
	.....		
INFINEON	P .....	Richard Johnson	y
INFINEON	A .....	Lars Leininger	
INFINEON	A# .....	Thomas Murphy	
	.....		
INFINITY I/O	P .....	Edward M. Frymoyer	nv
INFINITY I/O	A .....	Alan Land	
	.....		
Inrange	P .....	Harry V. Paul	nv
Inrange	A .....	Gregory Koellner	
Inrange	A# .....	Brad Solomon	
	.....		
Intel	P .....	Rich Taborek	
Intel	A .....	Schelto van Doorn	y
	.....		
Interphase	P .....	Rob Stalnaker	nv
Interphase	A .....	Jose Borrego	
	.....		
JNI	P .....	Craig Stuber	nv
JNI	A .....	Chuck Mcknett	
	.....		
Lightsand	P .....	Murali Rajagopal	nv
Lightsand	A .....	Andy Helland	
	.....		
Lockheed Martin	P .....	Rick Allison	y
	.....		
LSI Logic	P .....	Curtis A. Ridgeway	y
LSI Logic	A .....	Harmel S. Sangha	
LSI Logic	A# .....	John Lohmeyer	
LSI Logic	A# .....	Louis Odenwald	
	.....		
Lucent	P .....	Bill Krieg	y
	.....		
Madison Cable	P .....	Andrew Nowak	y
Madison Cable	A .....	Jie Fan	
	.....		
McData	P .....	Michael O'Donnell	y
McData	A .....	Scott Kipp	

Molex	P .....	Jay H. Neer	nv
MTI	P .....	Rich Ramos	y
Netapp	P .....	David Ford	nv
Nishan	P .....	Charles Monia	y
Nishan	A .....	Joshua Tseng	
NTT	P .....	Etsuji Sugita	nv
NTT	A .....	Shin'ichi Iwano	
NTT	A# .....	Osamu Ishida	
Panasonic	P .....	Johann Safar	nv
Pirus	P .....	Charles Binford	nv
Pirus	A .....	Glenn Virball	
QLogic	P .....	Craig Carlson	y
QLogic	A .....	Skip Jones	
Rhapsody	P .....	Venkat Rangan	y
Rhapsody	A .....	Edward McClanahan	
SanCastle	P .....	Dennis Talluto	y
Seagate	P .....	James Coomes	
Seagate	A .....	Paul Suhler	y
Smiths Aerospace	P .....	John Schroeder	y
Solution Tech.	P .....	David Deming	y
Solution Tech.	A .....	Greg Alvey	
Sony	P .....	Jeff Mendiola	y
Sony	A .....	Mai Nguyen	
SRB Consulting	P .....	Gary Warden	nv
ST	P .....	Mike Jensen	y
ST	A .....	Roland Marbot	
StorageTek	P .....	Matt Gaffney	y
Stratos Lightwave	P .....	Tom Lindsay	nv
Stratos Lightwave	A .....	Luis Torres	
Sun Microsystems	P .....	Vit Novak	y
Tensolite	P .....	Albert F. Kelley	nv
Tensolite	A .....	Ken Peters	

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TrueFocus	P.....	Horst Truedstedt	y
TrueFocus	A.....	Jeanne Truedstedt	
Unisys	P.....	Wayne Gentry	y
Unisys	A.....	Lloyd E. Thorsbakken	
US Conec	P.....	Kevin White	y
US Conec	A.....	Matt Brown	
US Conec	A#.....	Joe Graham	
Vixel	P.....	James Nelson	y
Vixel	A.....	Ken Hirata	
Vixel	A#.....	Dave Lewis	
Xyratex	P.....	Paul Levin	y
Xyratex	A.....	Neil Edmunds	

The motion carried 43 Yes, 0 No, with 3 Abstaining and 22 Not Voting. This meets the two-thirds rule. The Chair was actioned to notify INCITS of this.

### 10.2.2 10GFC LB Action Motion

Motion made by Schelto van Doorn to approve proposed responses to 10GFC LB Technical comments. Comments were made from the floor that some comments had not been addressed; the motion was withdrawn.

## 11 Task Group T11.3 Interconnection Schemes

### 11.1 T11.3 Plenary meeting Report

Craig Carlson of QLogic made the following report:

#### *48 Members*

#### *Development*

*FC-GS-4 – Second Draft Release 7.2; work on Enhanced Zoning continues*

*FC-SW-3 – First Draft Release 6.0; also working on Enhanced Zoning*

*Security Study Group – First Draft of Study Group White Paper; Many proposals – PKI, Key Services*

*FC-AV-2 – Call for volunteers*

#### *Approval*

*FC-AE completes T11 LB Comment Resolution – Requesting forwarding to NCITS*

*FC-FS completes T11.3 LB Comment Resolution – Requesting T11 Letter Ballot*

#### *New Projects*

#### *Security Standard*

#### *HBA API Standard*

#### *FA MIB Technical Report*

It was noted that these three project proposals would be presented for forwarding at the next meeting.

### 11.2 T11.3 Actions

**11.2.1 FC-AE Forwarding**

It was moved by Craig Carlson on behalf of T11.3 to accept the responses to the T11 LB comments contained in T11/02-097v0 and to forward FC-AE rev. 2.6 to INCITS for further processing.

The motion carried 42 Yes, 0 No, with 1 Abstaining and 25 Not Voting. The reason given for abstention was insufficient technical knowledge

**11.2.2 FC-FS LB**

A request was submitted by Craig Carlson, on behalf of T11.3, that T11 conduct a letter ballot on rev. 1.7 of FC-FS, when it becomes available. The request was granted.

**11.2.3 FC-AV Forwarding for Second Public Review**

It was moved by Craig Carlson on behalf of T11.3 that T11 accept the FC-AV INCITS Public Review comment resolution contained in T11/01-606v0 and forward FC-AV rev. 1.71 (T11/01-344v2) to INCITS for further processing, including Second Public Review

The results of the rollcall vote were as follows:

3M	P..... Tad Szostak	nv
3M	A..... Michael Griffin	
	.....	
Adaptec	P..... Neil MacLean	y
Adaptec	A..... Mike Nguyen	
Adaptec	A#..... Bill Lynn	
	.....	
Agilent	P..... Narayan Ayalasomayajula	nv
Agilent	A..... Gregg Goyins	
Agilent	A#..... Dylan Jackson	
	.....	
Akara	P..... Neil Wanamaker	y
	.....	
Amdahl	P..... William Cagle	nv
Amdahl	A..... Gary Andersen	
	.....	
AMP	P..... Charles Brill	
AMP	A..... Bob Atkinson	y
	.....	
Ancot	P..... Jan V. Dedek	y
Ancot	A..... Bart Raudebaugh	
	.....	
Andiamo	P..... Claudio DeSanti	y
Andiamo	A..... Dinesh Dutt	
	.....	
Boeing	P..... Michael S. Foster	y
Boeing	A..... Mike Dorsett	
Boeing	A#..... Jack E. Keller	
	.....	
Brocade Comms.	P..... Robert Snively	y
Brocade Comms.	A..... Steven L. Wilson	
Brocade Comms.	A#..... Kumar Malavalli	
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Cisco	P..... David Peterson	nv
	.....	

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CNT	P .....	Bret Ketchum	y
CNT	A .....	Mike Morandi	
CNT	A# .....	Bill Collette	
	.....		
Compaq	P .....	Bill Ham	y
Compaq	A .....	Mark Hamel	
	.....		
Connect'y Sol'ns	P .....	Robert W. Kembel	y
Connect'y Sol'ns	A .....	Julie Ann Kembel	
	.....		
Corning Inc.	P .....	Steven E. Swanson	
Corning Inc.	A .....	Doug Coleman	y
	.....		
Crossroads Sys.	P .....	Robert Griswold	
Crossroads Sys.	A .....	John Tyndall	y
Crossroads Sys.	A# .....	Bill Moody	
	.....		
Cypress Semi	P .....	Edward Grivna	y
Cypress Semi	A .....	Mark Marlett	
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	.....		
EMC	P .....	Gary S. Robinson	y
EMC	A .....	Greg McSorley	
	.....		
Emulex	P .....	Bob Nixon	y
Emulex	A .....	David Baldwin	
	.....		
ENDL Texas	P .....	Ralph Weber	y
ENDL Texas	A .....	Dal Allen	
	.....		
Exabyte	P .....	Roger Rose	nv
Exabyte	A .....	Roy Funderburk	
	.....		
FCI	P .....	Kevin Oursler	nv
	.....		
FSI	P .....	Gary R. Stephens	y
FSI	A .....	Ralph Weber	
	.....		
Fujikura America	P .....	Hari Naidu	nv
Fujikura America	A .....	Suresh Roy	
	.....		
Fujitsu	P .....	Mike Fitzpatrick	y
	.....		
Gadzoox	P .....	? (William R. Martin)	nv
Gadzoox	A .....	Wayne Rickard	
	.....		
General Dynamics	P .....	Robert Pedersen	y
General Dynamics	A .....	Michael Lamatsch	
	.....		
Genum	P .....	Ken Lazaris-Brunner	nv
Genum	A .....	Bharat Tailor	
	.....		

HICAM	P..... Naoki Watanabe	y
HICAM	A..... Art Edmonds	
	.....	
Hewlett Packard	P..... Predrag Spasic	y
	.....	
IBM	P..... John Scheible	y
IBM	A..... Robert Dugan	
IBM	A#..... George Penokie	
	.....	
INFINEON	P..... Richard Johnson	y
INFINEON	A..... Lars Leininger	
INFINEON	A#..... Thomas Murphy	
	.....	
INFINITY I/O	P..... Edward M. Frymoyer	nv
INFINITY I/O	A..... Alan Land	
	.....	
Inrange	P..... Harry V. Paul	nv
Inrange	A..... Gregory Koellner	
Inrange	A#..... Brad Solomon	
	.....	
Intel	P..... Rich Taborek	
Intel	A..... Schelto van Doorn	y
	.....	
Interphase	P..... Rob Stalnaker	nv
Interphase	A..... Jose Borrego	
	.....	
JNI	P..... Craig Stuber	nv
JNI	A..... Chuck Mcknett	
	.....	
Lightsand	P..... Murali Rajagopal	nv
Lightsand	A..... Andy Helland	
	.....	
Lockheed Martin	P..... Rick Allison	y
	.....	
LSI Logic	P..... Curtis A. Ridgeway	y
LSI Logic	A..... Harmel S. Sangha	
LSI Logic	A#..... John Lohmeyer	
LSI Logic	A#..... Louis Odenwald	
	.....	
Lucent	P..... Bill Krieg	y
	.....	
Madison Cable	P..... Andrew Nowak	y
Madison Cable	A..... Jie Fan	
	.....	
McData	P..... Michael O'Donnell	y
McData	A..... Scott Kipp	
	.....	
Molex	P..... Jay H. Neer	y
	.....	
MTI	P..... Rich Ramos	y
	.....	
Netapp	P..... David Ford	nv

Nishan	..... P..... Charles Monia	y
Nishan	A..... Joshua Tseng	
NTT	..... P..... Etsuji Sugita	nv
NTT	A..... Shin'ichi Iwano	
NTT	A#..... Osamu Ishida	
Panasonic	..... P..... Johann Safar	nv
Pirus	..... P..... Charles Binford	nv
Pirus	A..... Glenn Virball	
QLogic	..... P..... Craig Carlson	y
QLogic	A..... Skip Jones	
Rhapsody	..... P..... Venkat Rangan	
Rhapsody	A..... Edward McClanahan	y
SanCastle	..... P..... Dennis Talluto	y
Seagate	..... P..... James Coomes	
Seagate	A..... Paul Suhler	y
Smiths Aerospace	..... P..... John Schroeder	y
Solution Tech.	..... P..... David Deming	y
Solution Tech.	A..... Greg Alvey	
Sony	..... P..... Jeff Mendiola	y
Sony	A..... Mai Nguyen	
SRB Consulting	..... P..... Gary Warden	nv
ST	..... P..... Mike Jensen	y
ST	A..... Roland Marbot	
StorageTek	..... P..... Matt Gaffney	y
Stratos Lightwave	..... P..... Tom Lindsay	nv
Stratos Lightwave	A..... Luis Torres	
Sun Microsystems	..... P..... Vit Novak	y
Tensolite	..... P..... Albert F. Kelley	nv
Tensolite	A..... Ken Peters	
TrueFocus	..... P..... Horst Truestedt	y
TrueFocus	A..... Jeanne Truestedt	
Unisys	..... P..... Wayne Gentry	y
Unisys	A..... Lloyd E. Thorsbakken	

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US Conec	P .....	Kevin White	y
US Conec	A .....	Matt Brown	
US Conec	A# .....	Joe Graham	
.....			
Vixel	P .....	James Nelson	y
Vixel	A .....	Ken Hirata	
Vixel	A# .....	Dave Lewis	
.....			
Xyratex	P .....	Paul Levin	y
Xyratex	A .....	Neil Edmunds	

The motion carried 47 Yes, 0 No, with 0 Abstaining and 21 Not Voting. This meets the two-thirds rule.

### 12 Review of International Activity

#### 12.1 ISO/IEC Status Report

Gary Robinson of EMC, made the following report:

Bill Ham noted that SM-LL-V is not in FC-PI, and so will not be included in an ISO standard if FC-PH, PH-2, and PH-3 are not made ISO standards. It was suggested that the material be incorporated in FC-PI-2. Bill Ham and Greg McSorley were actioned to incorporate this material in FC-PI-2.

#### 12.2 ISO/IEC Actions

None

### 13 T11 New Business & New Technical Items

#### 13.1 Technology Roadmap

#### 13.2 2002- Five-year maintenance Review

##### 13.2.1 IPI-3 Disk Withdrawal

Bob Snively of Brocade moved, and Ed Grivna of Cypress Semiconductor seconded that T11 recommend withdrawal of IPI-3 Disk, ANSI X3.291:1997. The reason for this is lack of industry activity in this area.

The results of the rollcall vote were as follows:

3M	P .....	Tad Szostak	nv
3M	A .....	Michael Griffin	
.....			
Adaptec	P .....	Neil MacLean	y
Adaptec	A .....	Mike Nguyen	
Adaptec	A# .....	Bill Lynn	
.....			
Agilent	P .....	Narayan Ayalasomayajula	nv
Agilent	A .....	Gregg Goyins	
Agilent	A# .....	Dylan Jackson	
.....			
Akara	P .....	Neil Wanamaker	y
.....			
Amdahl	P .....	William Cagle	nv
Amdahl	A .....	Gary Andersen	
.....			
AMP	P .....	Charles Brill	

AMP	A..... Bob Atkinson	y
	.....	
Ancot	P..... Jan V. Dedek	nv
Ancot	A..... Bart Raudebaugh	
	.....	
Andiamo	P..... Claudio DeSanti	y
Andiamo	A..... Dinesh Dutt	
	.....	
Boeing	P..... Michael S. Foster	y
Boeing	A..... Mike Dorsett	
Boeing	A#..... Jack E. Keller	
	.....	
Brocade Comms.	P..... Robert Snively	y
Brocade Comms.	A..... Steven L. Wilson	
Brocade Comms.	A#..... Kumar Malavalli	
	.....	
Cisco	P..... David Peterson	nv
	.....	
CNT	P..... Bret Ketchum	y
CNT	A..... Mike Morandi	
CNT	A#..... Bill Collette	
	.....	
Compaq	P..... Bill Ham	y
Compaq	A..... Mark Hamel	
	.....	
Connect'y Sol'ns	P..... Robert W. Kembel	y
Connect'y Sol'ns	A..... Julie Ann Kembel	
	.....	
Corning Inc.	P..... Steven E. Swanson	
Corning Inc.	A..... Doug Coleman	y
	.....	
Crossroads Sys.	P..... Robert Griswold	
Crossroads Sys.	A..... John Tyndall	y
Crossroads Sys.	A#..... Bill Moody	
	.....	
Cypress Semi	P..... Edward Grivna	y
Cypress Semi	A..... Mark Marlett	
	.....	
	.....	
EMC	P..... Gary S. Robinson	y
EMC	A..... Greg McSorley	
	.....	
Emulex	P..... Bob Nixon	y
Emulex	A..... David Baldwin	
	.....	
ENDL Texas	P..... Ralph Weber	y
ENDL Texas	A..... Dal Allen	
	.....	
Exabyte	P..... Roger Rose	nv
Exabyte	A..... Roy Funderburk	
	.....	
FCI	P..... Kevin Oursler	nv

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	.....	
FSI	P..... Gary R. Stephens	y
FSI	A..... Ralph Weber	
	.....	
Fujikura America	P..... Hari Naidu	nv
Fujikura America	A..... Suresh Roy	
	.....	
Fujitsu	P..... Mike Fitzpatrick	y
	.....	
Gadzoox	P..... ? (William R. Martin)	nv
Gadzoox	A..... Wayne Rickard	
	.....	
General Dynamics	P..... Robert Pedersen	y
General Dynamics	A..... Michael Lamatsch	
	.....	
Genum	P..... Ken Lazaris-Brunner	nv
Genum	A..... Bharat Tailor	
	.....	
HICAM	P..... Naoki Watanabe	y
HICAM	A..... Art Edmonds	
	.....	
Hewlett Packard	P..... Predrag Spasic	y
	.....	
IBM	P..... John Scheible	y
IBM	A..... Robert Dugan	
IBM	A#..... George Penokie	
	.....	
INFINEON	P..... Richard Johnson	y
INFINEON	A..... Lars Leininger	
INFINEON	A#..... Thomas Murphy	
	.....	
INFINITY I/O	P..... Edward M. Frymoyer	nv
INFINITY I/O	A..... Alan Land	
	.....	
Inrange	P..... Harry V. Paul	nv
Inrange	A..... Gregory Koellner	
Inrange	A#..... Brad Solomon	
	.....	
Intel	P..... Rich Taborek	
Intel	A..... Schelto van Doorn	y
	.....	
Interphase	P..... Rob Stalnaker	nv
Interphase	A..... Jose Borrego	
	.....	
JNI	P..... Craig Stuber	nv
JNI	A..... Chuck Mcknett	
	.....	
Lightsand	P..... Murali Rajagopal	nv
Lightsand	A..... Andy Helland	
	.....	
Lockheed Martin	P..... Rick Allison	y
	.....	

LSI Logic	P..... Curtis A. Ridgeway	y
LSI Logic	A..... Harmel S. Sangha	
LSI Logic	A#..... John Lohmeyer	
LSI Logic	A#..... Louis Odenwald	
	.....	
Lucent	P..... Bill Krieg	y
	.....	
Madison Cable	P..... Andrew Nowak	y
Madison Cable	A..... Jie Fan	
	.....	
McData	P..... Michael O'Donnell	y
McData	A..... Scott Kipp	
	.....	
Molex	P..... Jay H. Neer	y
	.....	
MTI	P..... Rich Ramos	y
	.....	
Netapp	P..... David Ford	nv
	.....	
Nishan	P..... Charles Monia	y
Nishan	A..... Joshua Tseng	
	.....	
NTT	P..... Etsuji Sugita	nv
NTT	A..... Shin'ichi Iwano	
NTT	A#..... Osamu Ishida	
	.....	
Panasonic	P..... Johann Safar	nv
	.....	
Pirus	P..... Charles Binford	nv
Pirus	A..... Glenn Virball	
	.....	
QLogic	P..... Craig Carlson	y
QLogic	A..... Skip Jones	
	.....	
Rhapsody	P..... Venkat Rangan	
Rhapsody	A..... Edward McClanahan	y
	.....	
SanCastle	P..... Dennis Talluto	y
	.....	
Seagate	P..... James Coomes	
Seagate	A..... Paul Suhler	y
	.....	
Smiths Aerospace	P..... John Schroeder	y
	.....	
Solution Tech.	P..... David Deming	y
Solution Tech.	A..... Greg Alvey	
	.....	
Sony	P..... Jeff Mendiola	y
Sony	A..... Mai Nguyen	
	.....	
SRB Consulting	P..... Gary Warden	nv
	.....	

ST	P..... Mike Jensen	y
ST	A..... Roland Marbot .....	
StorageTek	P..... Matt Gaffney .....	y
Stratos Lightwave	P..... Tom Lindsay	nv
Stratos Lightwave	A..... Luis Torres .....	
Sun Microsystems	P..... Vit Novak .....	y
Tensolite	P..... Albert F. Kelley	nv
Tensolite	A..... Ken Peters .....	
TrueFocus	P..... Horst Truestedt	a
TrueFocus	A..... Jeanne Truestedt .....	
Unisys	P..... Wayne Gentry	y
Unisys	A..... Lloyd E. Thorsbakken .....	
US Conec	P..... Kevin White	nv
US Conec	A..... Matt Brown	
US Conec	A#..... Joe Graham .....	
Vixel	P..... James Nelson	y
Vixel	A..... Ken Hirata	
Vixel	A#..... Dave Lewis .....	
Xyratex	P..... Paul Levin	y
Xyratex	A..... Neil Edmunds	

The motion carried 44 Yes, 0 No, with 1 Abstaining (Not materially affected) and 23 Not voting. This meets the two-thirds rule.

### 13.2.2 IPI-3 Tape Withdrawal

Bob Snively of Brocade moved, and Ed Grivna of Cypress Semiconductor seconded, that T11 recommends withdrawal of IPI-3 Tape, X3.290:1997. The reason for this is lack of industry activity in this area.

The results of the rollcall vote were as follows:

3M	P..... Tad Szostak	nv
3M	A..... Michael Griffin .....	
Adaptec	P..... Neil MacLean	y
Adaptec	A..... Mike Nguyen	
Adaptec	A#..... Bill Lynn .....	
Agilent	P..... Narayan Ayalasonmayajula	nv
Agilent	A..... Gregg Goyins	
Agilent	A#..... Dylan Jackson .....	
Akara	P..... Neil Wanamaker .....	y
Amdahl	P..... William Cagle	nv

Amdahl	A..... Gary Andersen	
	.....	
AMP	P..... Charles Brill	
AMP	A..... Bob Atkinson	y
	.....	
Ancot	P..... Jan V. Dedek	nv
Ancot	A..... Bart Raudebaugh	
	.....	
Andiamo	P..... Claudio DeSanti	y
Andiamo	A..... Dinesh Dutt	
	.....	
Boeing	P..... Michael S. Foster	y
Boeing	A..... Mike Dorsett	
Boeing	A#..... Jack E. Keller	
	.....	
Brocade Comms.	P..... Robert Snively	y
Brocade Comms.	A..... Steven L. Wilson	
Brocade Comms.	A#..... Kumar Malavalli	
	.....	
Cisco	P..... David Peterson	nv
	.....	
CNT	P..... Bret Ketchum	y
CNT	A..... Mike Morandi	
CNT	A#..... Bill Collette	
	.....	
Compaq	P..... Bill Ham	y
Compaq	A..... Mark Hamel	
	.....	
Connect'y Sol'ns	P..... Robert W. Kembel	y
Connect'y Sol'ns	A..... Julie Ann Kembel	
	.....	
Corning Inc.	P..... Steven E. Swanson	
Corning Inc.	A..... Doug Coleman	y
	.....	
Crossroads Sys.	P..... Robert Griswold	
Crossroads Sys.	A..... John Tyndall	y
Crossroads Sys.	A#..... Bill Moody	
	.....	
Cypress Semi	P..... Edward Grivna	y
Cypress Semi	A..... Mark Marlett	
	.....	
	.....	
EMC	P..... Gary S. Robinson	y
EMC	A..... Greg McSorley	
	.....	
Emulex	P..... Bob Nixon	y
Emulex	A..... David Baldwin	
	.....	
ENDL Texas	P..... Ralph Weber	y
ENDL Texas	A..... Dal Allen	
	.....	
Exabyte	P..... Roger Rose	nv

Exabyte	A..... Roy Funderburk .....	
FCI	P..... Kevin Oursler .....	nv
FSI	P..... Gary R. Stephens	y
FSI	A..... Ralph Weber .....	
Fujikura America	P..... Hari Naidu	nv
Fujikura America	A..... Suresh Roy .....	
Fujitsu	P..... Mike Fitzpatrick .....	y
Gadzoox	P..... ? (William R. Martin)	nv
Gadzoox	A..... Wayne Rickard .....	
General Dynamics	P..... Robert Pedersen	y
General Dynamics	A..... Michael Lamatsch .....	
Gennum	P..... Ken Lazaris-Brunner	nv
Gennum	A..... Bharat Tailor .....	
HICAM	P..... Naoki Watanabe	y
HICAM	A..... Art Edmonds .....	
Hewlett Packard	P..... Predrag Spasic .....	y
IBM	P..... John Scheible	y
IBM	A..... Robert Dugan	
IBM	A#..... George Penokie .....	
INFINEON	P..... Richard Johnson	y
INFINEON	A..... Lars Leininger	
INFINEON	A#..... Thomas Murphy .....	
INFINITY I/O	P..... Edward M. Frymoyer	nv
INFINITY I/O	A..... Alan Land .....	
Inrange	P..... Harry V. Paul	nv
Inrange	A..... Gregory Koellner	
Inrange	A#..... Brad Solomon .....	
Intel	P..... Rich Taborek	
Intel	A..... Schelto van Doorn .....	y
Interphase	P..... Rob Stalnaker	nv
Interphase	A..... Jose Borrego .....	
JNI	P..... Craig Stuber	nv
JNI	A..... Chuck Mcknett .....	
Lightsand	P..... Murali Rajagopal	nv
Lightsand	A..... Andy Helland	

Lockheed Martin	..... P..... Rick Allison	y
LSI Logic	..... P..... Curtis A. Ridgeway	y
LSI Logic	A..... Harmel S. Sangha	
LSI Logic	A#..... John Lohmeyer	
LSI Logic	A#..... Louis Odenwald	
Lucent	..... P..... Bill Krieg	y
Madison Cable	..... P..... Andrew Nowak	y
Madison Cable	A..... Jie Fan	
McData	..... P..... Michael O'Donnell	y
McData	A..... Scott Kipp	
Molex	..... P..... Jay H. Neer	y
MTI	..... P..... Rich Ramos	y
Netapp	..... P..... David Ford	nv
Nishan	..... P..... Charles Monia	y
Nishan	A..... Joshua Tseng	
NTT	..... P..... Etsuji Sugita	nv
NTT	A..... Shin'ichi Iwano	
NTT	A#..... Osamu Ishida	
Panasonic	..... P..... Johann Safar	nv
Pirus	..... P..... Charles Binford	nv
Pirus	A..... Glenn Virball	
QLogic	..... P..... Craig Carlson	y
QLogic	A..... Skip Jones	
Rhapsody	..... P..... Venkat Rangan	
Rhapsody	A..... Edward McClanahan	y
SanCastle	..... P..... Dennis Talluto	y
Seagate	..... P..... James Coomes	
Seagate	A..... Paul Suhler	y
Smiths Aerospace	..... P..... John Schroeder	y
Solution Tech.	..... P..... David Deming	y
Solution Tech.	A..... Greg Alvey	
Sony	..... P..... Jeff Mendiola	y
Sony	A..... Mai Nguyen	

SRB Consulting	P..... Gary Warden	nv
ST	P..... Mike Jensen	y
ST	A..... Roland Marbot	
StorageTek	P..... Matt Gaffney	y
Stratos Lightwave	P..... Tom Lindsay	nv
Stratos Lightwave	A..... Luis Torres	
Sun Microsystems	P..... Vit Novak	y
Tensolite	P..... Albert F. Kelley	nv
Tensolite	A..... Ken Peters	
TrueFocus	P..... Horst Truedstedt	a
TrueFocus	A..... Jeanne Truedstedt	
Unisys	P..... Wayne Gentry	y
Unisys	A..... Lloyd E. Thorsbakken	
US Conec	P..... Kevin White	nv
US Conec	A..... Matt Brown	
US Conec	A#..... Joe Graham	
Vixel	P..... James Nelson	y
Vixel	A..... Ken Hirata	
Vixel	A#..... Dave Lewis	
Xyratex	P..... Paul Levin	y
Xyratex	A..... Neil Edmunds	

The motion carried 44 Yes, 0 No, with 1 Abstaining (Not materially affected) and 23 Not voting. This meets the two-thirds rule.

### 13.2.3 HIPPI-ATM Withdrawal

Bob Snively of Brocade moved and Ed Grivna of Cypress seconded that T11 recommend withdrawal of HIPPI-ATM, ANSI X3.299:1997. This was at the recommendation of the working group, due to lack of interest and industry activity.

The results of the rollcall vote were as follows:

3M	P..... Tad Szostak	nv
3M	A..... Michael Griffin	
Adaptec	P..... Neil MacLean	y
Adaptec	A..... Mike Nguyen	
Adaptec	A#..... Bill Lynn	
Agilent	P..... Narayan Ayalasomayajula	nv
Agilent	A..... Gregg Goyins	
Agilent	A#..... Dylan Jackson	

Akara	P..... Neil Wanamaker	y
Amdahl	P..... William Cagle	nv
Amdahl	A..... Gary Andersen	
AMP	P..... Charles Brill	
AMP	A..... Bob Atkinson	y
Ancot	P..... Jan V. Dedek	nv
Ancot	A..... Bart Raudebaugh	
Andiamo	P..... Claudio DeSanti	y
Andiamo	A..... Dinesh Dutt	
Boeing	P..... Michael S. Foster	y
Boeing	A..... Mike Dorsett	
Boeing	A#..... Jack E. Keller	
Brocade Comms.	P..... Robert Snively	y
Brocade Comms.	A..... Steven L. Wilson	
Brocade Comms.	A#..... Kumar Malavalli	
Cisco	P..... David Peterson	nv
CNT	P..... Bret Ketchum	y
CNT	A..... Mike Morandi	
CNT	A#..... Bill Collette	
Compaq	P..... Bill Ham	y
Compaq	A..... Mark Hamel	
Connect'y Sol'ns	P..... Robert W. Kembel	y
Connect'y Sol'ns	A..... Julie Ann Kembel	
Corning Inc.	P..... Steven E. Swanson	
Corning Inc.	A..... Doug Coleman	y
Crossroads Sys.	P..... Robert Griswold	
Crossroads Sys.	A..... John Tyndall	y
Crossroads Sys.	A#..... Bill Moody	
Cypress Semi	P..... Edward Grivna	y
Cypress Semi	A..... Mark Marlett	
EMC	P..... Gary S. Robinson	y
EMC	A..... Greg McSorley	
Emulex	P..... Bob Nixon	y
Emulex	A..... David Baldwin	

ENDL Texas	P..... Ralph Weber	y
ENDL Texas	A..... Dal Allen	
	.....	
Exabyte	P..... Roger Rose	nv
Exabyte	A..... Roy Funderburk	
	.....	
FCI	P..... Kevin Oursler	nv
	.....	
FSI	P..... Gary R. Stephens	y
FSI	A..... Ralph Weber	
	.....	
Fujikura America	P..... Hari Naidu	nv
Fujikura America	A..... Suresh Roy	
	.....	
Fujitsu	P..... Mike Fitzpatrick	y
	.....	
Gadzoox	P..... ? (William R. Martin)	nv
Gadzoox	A..... Wayne Rickard	
	.....	
General Dynamics	P..... Robert Pedersen	y
General Dynamics	A..... Michael Lamatsch	
	.....	
Genum	P..... Ken Lazaris-Brunner	nv
Genum	A..... Bharat Tailor	
	.....	
HICAM	P..... Naoki Watanabe	y
HICAM	A..... Art Edmonds	
	.....	
Hewlett Packard	P..... Predrag Spasic	y
	.....	
IBM	P..... John Scheible	y
IBM	A..... Robert Dugan	
IBM	A#..... George Penokie	
	.....	
INFINEON	P..... Richard Johnson	y
INFINEON	A..... Lars Leininger	
INFINEON	A#..... Thomas Murphy	
	.....	
INFINITY I/O	P..... Edward M. Frymoyer	nv
INFINITY I/O	A..... Alan Land	
	.....	
Inrange	P..... Harry V. Paul	nv
Inrange	A..... Gregory Koellner	
Inrange	A#..... Brad Solomon	
	.....	
Intel	P..... Rich Taborek	
Intel	A..... Schelto van Doorn	y
	.....	
Interphase	P..... Rob Stalnaker	nv
Interphase	A..... Jose Borrego	
	.....	
JNI	P..... Craig Stuber	nv

JNI	A..... Chuck Mcknett	
	.....	
Lightsand	P..... Murali Rajagopal	nv
Lightsand	A..... Andy Helland	
	.....	
Lockheed Martin	P..... Rick Allison	y
	.....	
LSI Logic	P..... Curtis A. Ridgeway	y
LSI Logic	A..... Harmel S. Sangha	
LSI Logic	A#..... John Lohmeyer	
LSI Logic	A#..... Louis Odenwald	
	.....	
Lucent	P..... Bill Krieg	y
	.....	
Madison Cable	P..... Andrew Nowak	y
Madison Cable	A..... Jie Fan	
	.....	
McData	P..... Michael O'Donnell	y
McData	A..... Scott Kipp	
	.....	
Molex	P..... Jay H. Neer	y
	.....	
MTI	P..... Rich Ramos	y
	.....	
Netapp	P..... David Ford	nv
	.....	
Nishan	P..... Charles Monia	y
Nishan	A..... Joshua Tseng	
	.....	
NTT	P..... Etsuji Sugita	nv
NTT	A..... Shin'ichi Iwano	
NTT	A#..... Osamu Ishida	
	.....	
Panasonic	P..... Johann Safar	nv
	.....	
Pirus	P..... Charles Binford	nv
Pirus	A..... Glenn Virball	
	.....	
QLogic	P..... Craig Carlson	y
QLogic	A..... Skip Jones	
	.....	
Rhapsody	P..... Venkat Rangan	
Rhapsody	A..... Edward McClanahan	y
	.....	
SanCastle	P..... Dennis Talluto	y
	.....	
Seagate	P..... James Coomes	
Seagate	A..... Paul Suhler	y
	.....	
Smiths Aerospace	P..... John Schroeder	y
	.....	
Solution Tech.	P..... David Deming	y

Solution Tech.	A..... Greg Alvey	
	.....	
Sony	P..... Jeff Mendiola	y
Sony	A..... Mai Nguyen	
	.....	
SRB Consulting	P..... Gary Warden	nv
	.....	
ST	P..... Mike Jensen	y
ST	A..... Roland Marbot	
	.....	
StorageTek	P..... Matt Gaffney	y
	.....	
Stratos Lightwave	P..... Tom Lindsay	nv
Stratos Lightwave	A..... Luis Torres	
	.....	
Sun Microsystems	P..... Vit Novak	y
	.....	
Tensolite	P..... Albert F. Kelley	nv
Tensolite	A..... Ken Peters	
	.....	
TrueFocus	P..... Horst Truedstedt	a
TrueFocus	A..... Jeanne Truedstedt	
	.....	
Unisys	P..... Wayne Gentry	y
Unisys	A..... Lloyd E. Thorsbakken	
	.....	
US Conec	P..... Kevin White	nv
US Conec	A..... Matt Brown	
US Conec	A#..... Joe Graham	
	.....	
Vixel	P..... James Nelson	y
Vixel	A..... Ken Hirata	
Vixel	A#..... Dave Lewis	
	.....	
Xyratex	P..... Paul Levin	y
Xyratex	A..... Neil Edmunds	

The motion carried 44 Yes, 0 No, with 1 Abstaining (Not materially affected) and 23 Not voting. This meets the two-thirds rule.

#### 13.2.4 HIPPI-SC Reaffirmation

Bob Snively of Brocade moved and Ed Grivna of Cypress seconded that T11 recommend reaffirmation of HIP-PI-SC, ANSI X3.222:1997.

The results of the rollcall vote were as follows:

3M	P..... Tad Szostak	nv
3M	A..... Michael Griffin	
	.....	
Adaptec	P..... Neil MacLean	y
Adaptec	A..... Mike Nguyen	
Adaptec	A#..... Bill Lynn	
	.....	

Agilent	P..... Narayan Ayalasomayajula	nv
Agilent	A..... Gregg Goyins	
Agilent	A#..... Dylan Jackson	
	.....	
Akara	P..... Neil Wanamaker	y
	.....	
Amdahl	P..... William Cagle	nv
Amdahl	A..... Gary Andersen	
	.....	
AMP	P..... Charles Brill	
AMP	A..... Bob Atkinson	y
	.....	
Ancot	P..... Jan V. Dedek	nv
Ancot	A..... Bart Raudebaugh	
	.....	
Andiamo	P..... Claudio DeSanti	y
Andiamo	A..... Dinesh Dutt	
	.....	
Boeing	P..... Michael S. Foster	y
Boeing	A..... Mike Dorsett	
Boeing	A#..... Jack E. Keller	
	.....	
Brocade Comms.	P..... Robert Snively	y
Brocade Comms.	A..... Steven L. Wilson	
Brocade Comms.	A#..... Kumar Malavalli	
	.....	
Cisco	P..... David Peterson	nv
	.....	
CNT	P..... Bret Ketchum	y
CNT	A..... Mike Morandi	
CNT	A#..... Bill Collette	
	.....	
Compaq	P..... Bill Ham	y
Compaq	A..... Mark Hamel	
	.....	
Connect'y Sol'ns	P..... Robert W. Kembel	y
Connect'y Sol'ns	A..... Julie Ann Kembel	
	.....	
Corning Inc.	P..... Steven E. Swanson	
Corning Inc.	A..... Doug Coleman	y
	.....	
Crossroads Sys.	P..... Robert Griswold	
Crossroads Sys.	A..... John Tyndall	y
Crossroads Sys.	A#..... Bill Moody	
	.....	
Cypress Semi	P..... Edward Grivna	y
Cypress Semi	A..... Mark Marlett	
	.....	
	.....	
EMC	P..... Gary S. Robinson	y
EMC	A..... Greg McSorley	
	.....	

Emulex	P..... Bob Nixon	y
Emulex	A..... David Baldwin	
	.....	
ENDL Texas	P..... Ralph Weber	y
ENDL Texas	A..... Dal Allen	
	.....	
Exabyte	P..... Roger Rose	nv
Exabyte	A..... Roy Funderburk	
	.....	
FCI	P..... Kevin Oursler	nv
	.....	
FSI	P..... Gary R. Stephens	y
FSI	A..... Ralph Weber	
	.....	
Fujikura America	P..... Hari Naidu	nv
Fujikura America	A..... Suresh Roy	
	.....	
Fujitsu	P..... Mike Fitzpatrick	y
	.....	
Gadzoox	P..... ? (William R. Martin)	nv
Gadzoox	A..... Wayne Rickard	
	.....	
General Dynamics	P..... Robert Pedersen	y
General Dynamics	A..... Michael Lamatsch	
	.....	
Genum	P..... Ken Lazaris-Brunner	nv
Genum	A..... Bharat Tailor	
	.....	
HICAM	P..... Naoki Watanabe	y
HICAM	A..... Art Edmonds	
	.....	
Hewlett Packard	P..... Predrag Spasic	y
	.....	
IBM	P..... John Scheible	y
IBM	A..... Robert Dugan	
IBM	A#..... George Penokie	
	.....	
INFINEON	P..... Richard Johnson	y
INFINEON	A..... Lars Leininger	
INFINEON	A#..... Thomas Murphy	
	.....	
INFINITY I/O	P..... Edward M. Frymoyer	nv
INFINITY I/O	A..... Alan Land	
	.....	
Inrange	P..... Harry V. Paul	nv
Inrange	A..... Gregory Koellner	
Inrange	A#..... Brad Solomon	
	.....	
Intel	P..... Rich Taborek	
Intel	A..... Schelto van Doorn	y
	.....	
Interphase	P..... Rob Stalnaker	nv

Interphase	A..... Jose Borrego .....	
JNI	P..... Craig Stuber	nv
JNI	A..... Chuck Mcknett .....	
Lightsand	P..... Murali Rajagopal	nv
Lightsand	A..... Andy Helland .....	
Lockheed Martin	P..... Rick Allison .....	y
LSI Logic	P..... Curtis A. Ridgeway	y
LSI Logic	A..... Harmel S. Sangha	
LSI Logic	A#..... John Lohmeyer	
LSI Logic	A#..... Louis Odenwald .....	
Lucent	P..... Bill Krieg .....	y
Madison Cable	P..... Andrew Nowak	y
Madison Cable	A..... Jie Fan .....	
McData	P..... Michael O'Donnell	y
McData	A..... Scott Kipp .....	
Molex	P..... Jay H. Neer .....	y
MTI	P..... Rich Ramos .....	y
Netapp	P..... David Ford .....	nv
Nishan	P..... Charles Monia	y
Nishan	A..... Joshua Tseng .....	
NTT	P..... Etsuji Sugita	nv
NTT	A..... Shin'ichi Iwano	
NTT	A#..... Osamu Ishida .....	
Panasonic	P..... Johann Safar .....	nv
Pirus	P..... Charles Binford	nv
Pirus	A..... Glenn Virball .....	
QLogic	P..... Craig Carlson	y
QLogic	A..... Skip Jones .....	
Rhapsody	P..... Venkat Rangan	
Rhapsody	A..... Edward McClanahan .....	y
SanCastle	P..... Dennis Talluto .....	y
Seagate	P..... James Coomes	
Seagate	A..... Paul Suhler .....	y

Smiths Aerospace	P..... John Schroeder	y
	.....	
Solution Tech.	P..... David Deming	y
Solution Tech.	A..... Greg Alvey	
	.....	
Sony	P..... Jeff Mendiola	y
Sony	A..... Mai Nguyen	
	.....	
SRB Consulting	P..... Gary Warden	nv
	.....	
ST	P..... Mike Jensen	y
ST	A..... Roland Marbot	
	.....	
StorageTek	P..... Matt Gaffney	y
	.....	
Stratos Lightwave	P..... Tom Lindsay	nv
Stratos Lightwave	A..... Luis Torres	
	.....	
Sun Microsystems	P..... Vit Novak	y
	.....	
Tensolite	P..... Albert F. Kelley	nv
Tensolite	A..... Ken Peters	
	.....	
TrueFocus	P..... Horst Truestedt	a
TrueFocus	A..... Jeanne Truestedt	
	.....	
Unisys	P..... Wayne Gentry	y
Unisys	A..... Lloyd E. Thorsbakken	
	.....	
US Conec	P..... Kevin White	nv
US Conec	A..... Matt Brown	
US Conec	A#..... Joe Graham	
	.....	
Vixel	P..... James Nelson	y
Vixel	A..... Ken Hirata	
Vixel	A#..... Dave Lewis	
	.....	
Xyratex	P..... Paul Levin	y
Xyratex	A..... Neil Edmunds	

The motion carried 44 Yes, 0 No, with 1 Abstaining (Not materially affected) and 23 Not voting. This meets the two-thirds rule.

### 13.2.5 FC-PH-2 Reaffirmation

Bob Snively of Brocade moved and Ed Grivna of Cypress seconded that T11 recommend reaffirmation of FC-PH-2, ANSI X3.297:1997.

The results of the rollcall vote were as follows:

3M	P..... Tad Szostak	nv
3M	A..... Michael Griffin	
	.....	
Adaptec	P..... Neil MacLean	y

Adaptec	A..... Mike Nguyen	
Adaptec	A#..... Bill Lynn	
	.....	
Agilent	P..... Narayan Ayalasomayajula	nv
Agilent	A..... Gregg Goyins	
Agilent	A#..... Dylan Jackson	
	.....	
Akara	P..... Neil Wanamaker	y
	.....	
Amdahl	P..... William Cagle	nv
Amdahl	A..... Gary Andersen	
	.....	
AMP	P..... Charles Brill	
AMP	A..... Bob Atkinson	y
	.....	
Ancot	P..... Jan V. Dedek	nv
Ancot	A..... Bart Raudebaugh	
	.....	
Andiamo	P..... Claudio DeSanti	y
Andiamo	A..... Dinesh Dutt	
	.....	
Boeing	P..... Michael S. Foster	y
Boeing	A..... Mike Dorsett	
Boeing	A#..... Jack E. Keller	
	.....	
Brocade Comms.	P..... Robert Snively	y
Brocade Comms.	A..... Steven L. Wilson	
Brocade Comms.	A#..... Kumar Malavalli	
	.....	
Cisco	P..... David Peterson	nv
	.....	
CNT	P..... Bret Ketchum	y
CNT	A..... Mike Morandi	
CNT	A#..... Bill Collette	
	.....	
Compaq	P..... Bill Ham	y
Compaq	A..... Mark Hamel	
	.....	
Connect'y Sol'ns	P..... Robert W. Kembel	y
Connect'y Sol'ns	A..... Julie Ann Kembel	
	.....	
Corning Inc.	P..... Steven E. Swanson	
Corning Inc.	A..... Doug Coleman	y
	.....	
Crossroads Sys.	P..... Robert Griswold	
Crossroads Sys.	A..... John Tyndall	y
Crossroads Sys.	A#..... Bill Moody	
	.....	
Cypress Semi	P..... Edward Grivna	y
Cypress Semi	A..... Mark Marlett	
	.....	
	.....	

EMC	P..... Gary S. Robinson	y
EMC	A..... Greg McSorley	
	.....	
Emulex	P..... Bob Nixon	y
Emulex	A..... David Baldwin	
	.....	
ENDL Texas	P..... Ralph Weber	y
ENDL Texas	A..... Dal Allen	
	.....	
Exabyte	P..... Roger Rose	nv
Exabyte	A..... Roy Funderburk	
	.....	
FCI	P..... Kevin Oursler	nv
	.....	
FSI	P..... Gary R. Stephens	y
FSI	A..... Ralph Weber	
	.....	
Fujikura America	P..... Hari Naidu	nv
Fujikura America	A..... Suresh Roy	
	.....	
Fujitsu	P..... Mike Fitzpatrick	y
	.....	
Gadzoox	P..... ? (William R. Martin)	nv
Gadzoox	A..... Wayne Rickard	
	.....	
General Dynamics	P..... Robert Pedersen	y
General Dynamics	A..... Michael Lamatsch	
	.....	
Gennum	P..... Ken Lazaris-Brunner	nv
Gennum	A..... Bharat Tailor	
	.....	
HICAM	P..... Naoki Watanabe	y
HICAM	A..... Art Edmonds	
	.....	
Hewlett Packard	P..... Predrag Spasic	y
	.....	
IBM	P..... John Scheible	y
IBM	A..... Robert Dugan	
IBM	A#..... George Penokie	
	.....	
INFINEON	P..... Richard Johnson	y
INFINEON	A..... Lars Leininger	
INFINEON	A#..... Thomas Murphy	
	.....	
INFINITY I/O	P..... Edward M. Frymoyer	nv
INFINITY I/O	A..... Alan Land	
	.....	
Inrange	P..... Harry V. Paul	nv
Inrange	A..... Gregory Koellner	
Inrange	A#..... Brad Solomon	
	.....	
Intel	P..... Rich Taborek	

Intel	A..... Schelto van Doorn .....	y
Interphase	P..... Rob Stalnaker	nv
Interphase	A..... Jose Borrego .....	
JNI	P..... Craig Stuber	nv
JNI	A..... Chuck Mcknett .....	
Lightsand	P..... Murali Rajagopal	nv
Lightsand	A..... Andy Helland .....	
Lockheed Martin	P..... Rick Allison .....	y
LSI Logic	P..... Curtis A. Ridgeway	y
LSI Logic	A..... Harmel S. Sangha	
LSI Logic	A#..... John Lohmeyer	
LSI Logic	A#..... Louis Odenwald .....	
Lucent	P..... Bill Krieg .....	y
Madison Cable	P..... Andrew Nowak	y
Madison Cable	A..... Jie Fan .....	
McData	P..... Michael O'Donnell	y
McData	A..... Scott Kipp .....	
Molex	P..... Jay H. Neer .....	y
MTI	P..... Rich Ramos .....	y
Netapp	P..... David Ford .....	nv
Nishan	P..... Charles Monia	y
Nishan	A..... Joshua Tseng .....	
NTT	P..... Etsuji Sugita	nv
NTT	A..... Shin'ichi Iwano	
NTT	A#..... Osamu Ishida .....	
Panasonic	P..... Johann Safar .....	nv
Pirus	P..... Charles Binford	nv
Pirus	A..... Glenn Virball .....	
QLogic	P..... Craig Carlson	y
QLogic	A..... Skip Jones .....	
Rhapsody	P..... Venkat Rangan	
Rhapsody	A..... Edward McClanahan .....	y
SanCastle	P..... Dennis Talluto .....	y

Seagate	P..... James Coomes	
Seagate	A..... Paul Suhler	y
	.....	
Smiths Aerospace	P..... John Schroeder	y
	.....	
Solution Tech.	P..... David Deming	y
Solution Tech.	A..... Greg Alvey	
	.....	
Sony	P..... Jeff Mendiola	y
Sony	A..... Mai Nguyen	
	.....	
SRB Consulting	P..... Gary Warden	nv
	.....	
ST	P..... Mike Jensen	y
ST	A..... Roland Marbot	
	.....	
StorageTek	P..... Matt Gaffney	y
	.....	
Stratos Lightwave	P..... Tom Lindsay	nv
Stratos Lightwave	A..... Luis Torres	
	.....	
Sun Microsystems	P..... Vit Novak	y
	.....	
Tensolite	P..... Albert F. Kelley	nv
Tensolite	A..... Ken Peters	
	.....	
TrueFocus	P..... Horst Truedstedt	a
TrueFocus	A..... Jeanne Truedstedt	
	.....	
Unisys	P..... Wayne Gentry	y
Unisys	A..... Lloyd E. Thorsbakken	
	.....	
US Conec	P..... Kevin White	nv
US Conec	A..... Matt Brown	
US Conec	A#..... Joe Graham	
	.....	
Vixel	P..... James Nelson	y
Vixel	A..... Ken Hirata	
Vixel	A#..... Dave Lewis	
	.....	
Xyratex	P..... Paul Levin	y
Xyratex	A..... Neil Edmunds	

The motion carried 44 Yes, 0 No, with 1 Abstaining (Not materially affected) and 23 Not voting. This meets the two-thirds rule.

### 13.2.6 HIPPI-Serial Reaffirmation

Bob Snively of Brocade moved, and Ed Grivna of Cypress Semiconductor seconded that T11 recommend reaffirmation of HIPPI-Serial, X3.300:1997.

The results of the rollcall vote were as follows:

3M	P..... Tad Szostak	nv
----	--------------------	----

3M	A..... Michael Griffin	
	.....	
Adaptec	P..... Neil MacLean	y
Adaptec	A..... Mike Nguyen	
Adaptec	A#..... Bill Lynn	
	.....	
Agilent	P..... Narayan Ayalasomayajula	nv
Agilent	A..... Gregg Goyins	
Agilent	A#..... Dylan Jackson	
	.....	
Akara	P..... Neil Wanamaker	y
	.....	
Amdahl	P..... William Cagle	nv
Amdahl	A..... Gary Andersen	
	.....	
AMP	P..... Charles Brill	
AMP	A..... Bob Atkinson	y
	.....	
Ancot	P..... Jan V. Dedek	nv
Ancot	A..... Bart Raudebaugh	
	.....	
Andiamo	P..... Claudio DeSanti	y
Andiamo	A..... Dinesh Dutt	
	.....	
Boeing	P..... Michael S. Foster	y
Boeing	A..... Mike Dorsett	
Boeing	A#..... Jack E. Keller	
	.....	
Brocade Comms.	P..... Robert Snively	y
Brocade Comms.	A..... Steven L. Wilson	
Brocade Comms.	A#..... Kumar Malavalli	
	.....	
Cisco	P..... David Peterson	nv
	.....	
CNT	P..... Bret Ketchum	y
CNT	A..... Mike Morandi	
CNT	A#..... Bill Collette	
	.....	
Compaq	P..... Bill Ham	y
Compaq	A..... Mark Hamel	
	.....	
Connect'y Sol'ns	P..... Robert W. Kembel	y
Connect'y Sol'ns	A..... Julie Ann Kembel	
	.....	
Corning Inc.	P..... Steven E. Swanson	
Corning Inc.	A..... Doug Coleman	y
	.....	
Crossroads Sys.	P..... Robert Griswold	
Crossroads Sys.	A..... John Tyndall	y
Crossroads Sys.	A#..... Bill Moody	
	.....	
Cypress Semi	P..... Edward Grivna	y

Cypress Semi	A..... Mark Marlett ..... .....	
EMC	P..... Gary S. Robinson	y
EMC	A..... Greg McSorley ..... .....	
Emulex	P..... Bob Nixon	y
Emulex	A..... David Baldwin ..... .....	
ENDL Texas	P..... Ralph Weber	y
ENDL Texas	A..... Dal Allen ..... .....	
Exabyte	P..... Roger Rose	nv
Exabyte	A..... Roy Funderburk ..... .....	
FCI	P..... Kevin Oursler	nv
FSI	P..... Gary R. Stephens	y
FSI	A..... Ralph Weber ..... .....	
Fujikura America	P..... Hari Naidu	nv
Fujikura America	A..... Suresh Roy ..... .....	
Fujitsu	P..... Mike Fitzpatrick	y
Gadzoox	P..... ? (William R. Martin)	nv
Gadzoox	A..... Wayne Rickard ..... .....	
General Dynamics	P..... Robert Pedersen	y
General Dynamics	A..... Michael Lamatsch ..... .....	
Genum	P..... Ken Lazaris-Brunner	nv
Genum	A..... Bharat Tailor ..... .....	
HICAM	P..... Naoki Watanabe	y
HICAM	A..... Art Edmonds ..... .....	
Hewlett Packard	P..... Predrag Spasic	y
IBM	P..... John Scheible	y
IBM	A..... Robert Dugan	
IBM	A#..... George Penokie ..... .....	
INFINEON	P..... Richard Johnson	y
INFINEON	A..... Lars Leininger	
INFINEON	A#..... Thomas Murphy ..... .....	
INFINITY I/O	P..... Edward M. Frymoyer	nv
INFINITY I/O	A..... Alan Land ..... .....	
Inrange	P..... Harry V. Paul	nv
Inrange	A..... Gregory Koellner	

Inrange	A#..... Brad Solomon	
	.....	
Intel	P..... Rich Taborek	
Intel	A..... Schelto van Doorn	y
	.....	
Interphase	P..... Rob Stalnaker	nv
Interphase	A..... Jose Borrego	
	.....	
JNI	P..... Craig Stuber	nv
JNI	A..... Chuck Mcknett	
	.....	
Lightsand	P..... Murali Rajagopal	nv
Lightsand	A..... Andy Helland	
	.....	
Lockheed Martin	P..... Rick Allison	y
	.....	
LSI Logic	P..... Curtis A. Ridgeway	y
LSI Logic	A..... Harmel S. Sangha	
LSI Logic	A#..... John Lohmeyer	
LSI Logic	A#..... Louis Odenwald	
	.....	
Lucent	P..... Bill Krieg	y
	.....	
Madison Cable	P..... Andrew Nowak	y
Madison Cable	A..... Jie Fan	
	.....	
McData	P..... Michael O'Donnell	y
McData	A..... Scott Kipp	
	.....	
Molex	P..... Jay H. Neer	y
	.....	
MTI	P..... Rich Ramos	y
	.....	
Netapp	P..... David Ford	nv
	.....	
Nishan	P..... Charles Monia	y
Nishan	A..... Joshua Tseng	
	.....	
NTT	P..... Etsuji Sugita	nv
NTT	A..... Shin'ichi Iwano	
NTT	A#..... Osamu Ishida	
	.....	
Panasonic	P..... Johann Safar	nv
	.....	
Pirus	P..... Charles Binford	nv
Pirus	A..... Glenn Virball	
	.....	
QLogic	P..... Craig Carlson	y
QLogic	A..... Skip Jones	
	.....	
Rhapsody	P..... Venkat Rangan	
Rhapsody	A..... Edward McClanahan	y

SanCastle	..... P..... Dennis Talluto	y
Seagate	..... P..... James Coomes	
Seagate	A..... Paul Suhler	y
Smiths Aerospace	..... P..... John Schroeder	y
Solution Tech.	..... P..... David Deming	y
Solution Tech.	A..... Greg Alvey	
Sony	..... P..... Jeff Mendiola	y
Sony	A..... Mai Nguyen	
SRB Consulting	..... P..... Gary Warden	nv
ST	..... P..... Mike Jensen	y
ST	A..... Roland Marbot	
StorageTek	..... P..... Matt Gaffney	y
Stratos Lightwave	..... P..... Tom Lindsay	nv
Stratos Lightwave	A..... Luis Torres	
Sun Microsystems	..... P..... Vit Novak	y
Tensolite	..... P..... Albert F. Kelley	nv
Tensolite	A..... Ken Peters	
TrueFocus	..... P..... Horst Truestedt	a
TrueFocus	A..... Jeanne Truestedt	
Unisys	..... P..... Wayne Gentry	y
Unisys	A..... Lloyd E. Thorsbakken	
US Conec	..... P..... Kevin White	nv
US Conec	A..... Matt Brown	
US Conec	A#..... Joe Graham	
Vixel	..... P..... James Nelson	y
Vixel	A..... Ken Hirata	
Vixel	A#..... Dave Lewis	
Xyratex	..... P..... Paul Levin	y
Xyratex	A..... Neil Edmunds	

The motion carried 44 Yes, 0 No, with 1 Abstaining (Not materially affected) and 23 Not voting. This meets the two-thirds rule.

### 13.2.7 Fibre Channel 10 - bit Interface Reaffirmation

Bob Snively of Brocade moved and Ed Grivna of Cypress Semiconductor seconded that T11 recommend reaffirmation of the Fibre Channel 10-bit Interface Technical Report, X3/TR-18:1997.

The results of the rollcall vote were as follows:

3M	P..... Tad Szostak	nv
3M	A..... Michael Griffin	
	.....	
Adaptec	P..... Neil MacLean	y
Adaptec	A..... Mike Nguyen	
Adaptec	A#..... Bill Lynn	
	.....	
Agilent	P..... Narayan Ayalasomayajula	nv
Agilent	A..... Gregg Goyins	
Agilent	A#..... Dylan Jackson	
	.....	
Akara	P..... Neil Wanamaker	y
	.....	
Amdahl	P..... William Cagle	nv
Amdahl	A..... Gary Andersen	
	.....	
AMP	P..... Charles Brill	
AMP	A..... Bob Atkinson	y
	.....	
Ancot	P..... Jan V. Dedek	nv
Ancot	A..... Bart Raudebaugh	
	.....	
Andiamo	P..... Claudio DeSanti	y
Andiamo	A..... Dinesh Dutt	
	.....	
Boeing	P..... Michael S. Foster	y
Boeing	A..... Mike Dorsett	
Boeing	A#..... Jack E. Keller	
	.....	
Brocade Comms.	P..... Robert Snively	y
Brocade Comms.	A..... Steven L. Wilson	
Brocade Comms.	A#..... Kumar Malavalli	
	.....	
Cisco	P..... David Peterson	nv
	.....	
CNT	P..... Bret Ketchum	y
CNT	A..... Mike Morandi	
CNT	A#..... Bill Collette	
	.....	
Compaq	P..... Bill Ham	y
Compaq	A..... Mark Hamel	
	.....	
Connect'y Sol'ns	P..... Robert W. Kembel	y
Connect'y Sol'ns	A..... Julie Ann Kembel	
	.....	
Corning Inc.	P..... Steven E. Swanson	
Corning Inc.	A..... Doug Coleman	y
	.....	
Crossroads Sys.	P..... Robert Griswold	
Crossroads Sys.	A..... John Tyndall	y

Crossroads Sys.	A#..... Bill Moody	
	.....	
Cypress Semi	P..... Edward Grivna	y
Cypress Semi	A..... Mark Marlett	
	.....	
	.....	
EMC	P..... Gary S. Robinson	y
EMC	A..... Greg McSorley	
	.....	
Emulex	P..... Bob Nixon	y
Emulex	A..... David Baldwin	
	.....	
ENDL Texas	P..... Ralph Weber	y
ENDL Texas	A..... Dal Allen	
	.....	
Exabyte	P..... Roger Rose	nv
Exabyte	A..... Roy Funderburk	
	.....	
FCI	P..... Kevin Oursler	nv
	.....	
FSI	P..... Gary R. Stephens	y
FSI	A..... Ralph Weber	
	.....	
Fujikura America	P..... Hari Naidu	nv
Fujikura America	A..... Suresh Roy	
	.....	
Fujitsu	P..... Mike Fitzpatrick	y
	.....	
Gadzoox	P..... ? (William R. Martin)	nv
Gadzoox	A..... Wayne Rickard	
	.....	
General Dynamics	P..... Robert Pedersen	y
General Dynamics	A..... Michael Lamatsch	
	.....	
Genum	P..... Ken Lazaris-Brunner	nv
Genum	A..... Bharat Tailor	
	.....	
HICAM	P..... Naoki Watanabe	y
HICAM	A..... Art Edmonds	
	.....	
Hewlett Packard	P..... Predrag Spasic	y
	.....	
IBM	P..... John Scheible	y
IBM	A..... Robert Dugan	
IBM	A#..... George Penokie	
	.....	
INFINEON	P..... Richard Johnson	y
INFINEON	A..... Lars Leininger	
INFINEON	A#..... Thomas Murphy	
	.....	
INFINITY I/O	P..... Edward M. Frymoyer	nv
INFINITY I/O	A..... Alan Land	

Inrange	P..... Harry V. Paul	nv
Inrange	A..... Gregory Koellner	
Inrange	A#..... Brad Solomon	
	.....	
Intel	P..... Rich Taborek	
Intel	A..... Schelto van Doorn	y
	.....	
Interphase	P..... Rob Stalnaker	nv
Interphase	A..... Jose Borrego	
	.....	
JNI	P..... Craig Stuber	nv
JNI	A..... Chuck Mcknett	
	.....	
Lightsand	P..... Murali Rajagopal	nv
Lightsand	A..... Andy Helland	
	.....	
Lockheed Martin	P..... Rick Allison	y
	.....	
LSI Logic	P..... Curtis A. Ridgeway	y
LSI Logic	A..... Harmel S. Sangha	
LSI Logic	A#..... John Lohmeyer	
LSI Logic	A#..... Louis Odenwald	
	.....	
Lucent	P..... Bill Krieg	y
	.....	
Madison Cable	P..... Andrew Nowak	y
Madison Cable	A..... Jie Fan	
	.....	
McData	P..... Michael O'Donnell	y
McData	A..... Scott Kipp	
	.....	
Molex	P..... Jay H. Neer	y
	.....	
MTI	P..... Rich Ramos	y
	.....	
Netapp	P..... David Ford	nv
	.....	
Nishan	P..... Charles Monia	y
Nishan	A..... Joshua Tseng	
	.....	
NTT	P..... Etsuji Sugita	nv
NTT	A..... Shin'ichi Iwano	
NTT	A#..... Osamu Ishida	
	.....	
Panasonic	P..... Johann Safar	nv
	.....	
Pirus	P..... Charles Binford	nv
Pirus	A..... Glenn Virball	
	.....	
QLogic	P..... Craig Carlson	y
QLogic	A..... Skip Jones	

	.....	
Rhapsody	P..... Venkat Rangan	
Rhapsody	A..... Edward McClanahan	y
	.....	
SanCastle	P..... Dennis Talluto	y
	.....	
Seagate	P..... James Coomes	
Seagate	A..... Paul Suhler	y
	.....	
Smiths Aerospace	P..... John Schroeder	y
	.....	
Solution Tech.	P..... David Deming	y
Solution Tech.	A..... Greg Alvey	
	.....	
Sony	P..... Jeff Mendiola	y
Sony	A..... Mai Nguyen	
	.....	
SRB Consulting	P..... Gary Warden	nv
	.....	
ST	P..... Mike Jensen	y
ST	A..... Roland Marbot	
	.....	
StorageTek	P..... Matt Gaffney	y
	.....	
Stratos Lightwave	P..... Tom Lindsay	nv
Stratos Lightwave	A..... Luis Torres	
	.....	
Sun Microsystems	P..... Vit Novak	y
	.....	
Tensolite	P..... Albert F. Kelley	nv
Tensolite	A..... Ken Peters	
	.....	
TrueFocus	P..... Horst Truedtedt	a
TrueFocus	A..... Jeanne Truedtedt	
	.....	
Unisys	P..... Wayne Gentry	y
Unisys	A..... Lloyd E. Thorsbakken	
	.....	
US Conec	P..... Kevin White	nv
US Conec	A..... Matt Brown	
US Conec	A#..... Joe Graham	
	.....	
Vixel	P..... James Nelson	y
Vixel	A..... Ken Hirata	
Vixel	A#..... Dave Lewis	
	.....	
Xyratex	P..... Paul Levin	y
Xyratex	A..... Neil Edmunds	

The motion carried 44 Yes, 0 No, with 1 Abstaining (Not materially affected) and 23 Not voting. This meets the two-thirds rule.

**13.2.8 SBCON Reaffirmation**

Bob Snively of Brocade moved and Ed Grivna of Cypress Semiconductor seconded that T11 recommend reaffirmation of SBCON, X3.296:1997.

The results of the rollcall vote were as follows:

3M	P..... Tad Szostak	nv
3M	A..... Michael Griffin	
	.....	
Adaptec	P..... Neil MacLean	y
Adaptec	A..... Mike Nguyen	
Adaptec	A#..... Bill Lynn	
	.....	
Agilent	P..... Narayan Ayalasomayajula	nv
Agilent	A..... Gregg Goyins	
Agilent	A#..... Dylan Jackson	
	.....	
Akara	P..... Neil Wanamaker	y
	.....	
Amdahl	P..... William Cagle	nv
Amdahl	A..... Gary Andersen	
	.....	
AMP	P..... Charles Brill	
AMP	A..... Bob Atkinson	y
	.....	
Ancot	P..... Jan V. Dedek	nv
Ancot	A..... Bart Raudebaugh	
	.....	
Andiamo	P..... Claudio DeSanti	y
Andiamo	A..... Dinesh Dutt	
	.....	
Boeing	P..... Michael S. Foster	y
Boeing	A..... Mike Dorsett	
Boeing	A#..... Jack E. Keller	
	.....	
Brocade Comms.	P..... Robert Snively	y
Brocade Comms.	A..... Steven L. Wilson	
Brocade Comms.	A#..... Kumar Malavalli	
	.....	
Cisco	P..... David Peterson	nv
	.....	
CNT	P..... Bret Ketchum	y
CNT	A..... Mike Morandi	
CNT	A#..... Bill Collette	
	.....	
Compaq	P..... Bill Ham	y
Compaq	A..... Mark Hamel	
	.....	
Connect'y Sol'ns	P..... Robert W. Kembel	y
Connect'y Sol'ns	A..... Julie Ann Kembel	
	.....	
Corning Inc.	P..... Steven E. Swanson	

Corning Inc.	A..... Doug Coleman	y
	.....	
Crossroads Sys.	P..... Robert Griswold	
Crossroads Sys.	A..... John Tyndall	y
Crossroads Sys.	A#..... Bill Moody	
	.....	
Cypress Semi	P..... Edward Grivna	y
Cypress Semi	A..... Mark Marlett	
	.....	
	.....	
EMC	P..... Gary S. Robinson	y
EMC	A..... Greg McSorley	
	.....	
Emulex	P..... Bob Nixon	y
Emulex	A..... David Baldwin	
	.....	
ENDL Texas	P..... Ralph Weber	y
ENDL Texas	A..... Dal Allen	
	.....	
Exabyte	P..... Roger Rose	nv
Exabyte	A..... Roy Funderburk	
	.....	
FCI	P..... Kevin Oursler	nv
	.....	
FSI	P..... Gary R. Stephens	y
FSI	A..... Ralph Weber	
	.....	
Fujikura America	P..... Hari Naidu	nv
Fujikura America	A..... Suresh Roy	
	.....	
Fujitsu	P..... Mike Fitzpatrick	y
	.....	
Gadzoox	P..... ? (William R. Martin)	nv
Gadzoox	A..... Wayne Rickard	
	.....	
General Dynamics	P..... Robert Pedersen	y
General Dynamics	A..... Michael Lamatsch	
	.....	
Genum	P..... Ken Lazaris-Brunner	nv
Genum	A..... Bharat Tailor	
	.....	
HICAM	P..... Naoki Watanabe	y
HICAM	A..... Art Edmonds	
	.....	
Hewlett Packard	P..... Predrag Spasic	y
	.....	
IBM	P..... John Scheible	y
IBM	A..... Robert Dugan	
IBM	A#..... George Penokie	
	.....	
INFINEON	P..... Richard Johnson	y
INFINEON	A..... Lars Leininger	

INFINEON	A#..... Thomas Murphy	
	.....	
INFINITY I/O	P..... Edward M. Frymoyer	nv
INFINITY I/O	A..... Alan Land	
	.....	
Inrange	P..... Harry V. Paul	nv
Inrange	A..... Gregory Koellner	
Inrange	A#..... Brad Solomon	
	.....	
Intel	P..... Rich Taborek	
Intel	A..... Schelto van Doorn	y
	.....	
Interphase	P..... Rob Stalnaker	nv
Interphase	A..... Jose Borrego	
	.....	
JNI	P..... Craig Stuber	nv
JNI	A..... Chuck Mcknett	
	.....	
Lightsand	P..... Murali Rajagopal	nv
Lightsand	A..... Andy Helland	
	.....	
Lockheed Martin	P..... Rick Allison	y
	.....	
LSI Logic	P..... Curtis A. Ridgeway	y
LSI Logic	A..... Harmel S. Sangha	
LSI Logic	A#..... John Lohmeyer	
LSI Logic	A#..... Louis Odenwald	
	.....	
Lucent	P..... Bill Krieg	y
	.....	
Madison Cable	P..... Andrew Nowak	y
Madison Cable	A..... Jie Fan	
	.....	
McData	P..... Michael O'Donnell	y
McData	A..... Scott Kipp	
	.....	
Molex	P..... Jay H. Neer	y
	.....	
MTI	P..... Rich Ramos	y
	.....	
Netapp	P..... David Ford	nv
	.....	
Nishan	P..... Charles Monia	y
Nishan	A..... Joshua Tseng	
	.....	
NTT	P..... Etsuji Sugita	nv
NTT	A..... Shin'ichi Iwano	
NTT	A#..... Osamu Ishida	
	.....	
Panasonic	P..... Johann Safar	nv
	.....	
Pirus	P..... Charles Binford	nv

Pirus	A..... Glenn Virball .....	
QLogic	P..... Craig Carlson	y
QLogic	A..... Skip Jones .....	
Rhapsody	P..... Venkat Rangan	
Rhapsody	A..... Edward McClanahan .....	y
SanCastle	P..... Dennis Talluto .....	y
Seagate	P..... James Coomes	
Seagate	A..... Paul Suhler .....	y
Smiths Aerospace	P..... John Schroeder .....	y
Solution Tech.	P..... David Deming	y
Solution Tech.	A..... Greg Alvey .....	
Sony	P..... Jeff Mendiola	y
Sony	A..... Mai Nguyen .....	
SRB Consulting	P..... Gary Warden .....	nv
ST	P..... Mike Jensen	y
ST	A..... Roland Marbot .....	
StorageTek	P..... Matt Gaffney .....	y
Stratos Lightwave	P..... Tom Lindsay	nv
Stratos Lightwave	A..... Luis Torres .....	
Sun Microsystems	P..... Vit Novak .....	y
Tensolite	P..... Albert F. Kelley	nv
Tensolite	A..... Ken Peters .....	
TrueFocus	P..... Horst Truestedt	a
TrueFocus	A..... Jeanne Truestedt .....	
Unisys	P..... Wayne Gentry	y
Unisys	A..... Lloyd E. Thorsbakken .....	
US Conec	P..... Kevin White	nv
US Conec	A..... Matt Brown	
US Conec	A#..... Joe Graham .....	
Vixel	P..... James Nelson	y
Vixel	A..... Ken Hirata	
Vixel	A#..... Dave Lewis .....	
Xyratex	P..... Paul Levin	y
Xyratex	A..... Neil Edmunds	

The motion carried 44 Yes, 0 No, with 1 Abstaining (Not materially affected) and 23 Not voting. This meets the two-thirds rule.

### **13.3 Other New Business**

None

### **14 Call for Patents**

Bob Snively, T11 Chair, made the following report:

*A call is hereby made for patents and/or Patent applications that may be necessary to comply with the requirements in T11 standards, draft standards, technical reports, or draft technical reports. It is necessary for the holders to agree to license those patents in conformance with the ANSI patent policy*

*A document is available from ANSI, "Procedures for the Development and Coordination of American National Standards", at no charge. This document is also on the Web at [www.incits.org/help/ansi\\_sdo.html](http://www.incits.org/help/ansi_sdo.html). The section 1.2.11 contains the ANSI patent policy.*

*The contact at ANSI is the General Counsel, Ms. Amy Marasco –*

*(212)642-4954 or [amarasco@ansi.org](mailto:amarasco@ansi.org)*

*IBM has declared that it has patents, which apply to the practice of FC and SBCON. The contact is:*

*Tom Slattery, Program Director, IBM Corporation, North Castle Drive, Armonk, New York 10504*

*Tel: (914)765-4351, Fax: (914)765-4390, Email: [tmslatt@us.ibm.com](mailto:tmslatt@us.ibm.com)*

*McDATA Corporation has notified the American National Standards Institute that it holds patents that are applicable to the following ANSI documents:*

*FC-PH-2, FC-FS, FC-SW, and FC-SW-2.*

*The contact is:*

*Kathleen A. McMann, McData Corp., 310 Interlocken Parkway,*

*Broomfield, CO 80021 Phone: (303)460-3277, Fax (303)460-3235,*

*Email: [kmcmann@mcddata.com](mailto:kmcmann@mcddata.com)*

*Agilent Technologies has notified the American National Standards Institute that it holds patents applicable to 10GFC.*

*The contact is:*

*Agilent Technologies, Inc.*

*Legal Department, Patent Out-Licensing Section*

*3000 Hanover street*

*Palo Alto, CA 94304*

### **15 Liaison Reports**

#### **15.1 INCITS Report**

Bob Snively of Brocade, T11 Chair, made the following report:

*HIPPI-6400-OPT - 1st Public Review comment resolution letters need to be sent out to Roger Ronald and David Hyder*

*FC-AV - 1st Public Review comment resolution letters need to be sent out to Steve Wilson, Jack Keller, and Johann Safar*

*FC-PI - 1st Public Review comment resolution letters have been sent out. Awaiting responses from commenters.*

*FC-MI forwarded to NCITS; no status update*

*FC-AV forwarded to NCITS; no status update*

**15.2 T10 Report**

Ralph Weber of ENDL Texas, on behalf of John Lohmeyer, Chair of T10, made the following report:

*T10 met last in Houston, TX, on Thursday January 17, 2002 with 48 people present. Membership is at 45 voting organizations.*

*FCP-2 revision 7a was forwarded to INCITS for approval. Some editorial errors were discovered in Annexes B and F where arrows were lost from tables. These errors need to be corrected prior to the INCITS letter ballot. A no vote from IBM is expected on the INCITS letter ballot.*

*Crossroads has identified a patent (6,148,421) they hold that they believe is applicable to the FC-Tape error recovery portion of the draft FCP-2 standard (see T10/02-066r0 for their patent statement).*

*SPC-2 (NCITS.351:2001) has been approved and published.*

*MMC-3 is at first public review, closing 11 February 2002. An MMC-4 project (1545-D) has been approved.*

*The SPI-4 rev 9 has been forwarded to INCITS for first public review.*

*The letter ballot on forwarding SCSI Stream Commands - 2 (SSC-2) passed 38:4:4:0=46 and is now in comment resolution.*

*No response was received on the call for an SST technical editor. T10 has requested that this project be closed.*

*Texas Instruments will host the next plenary meeting of T10 March 14, 2002 in Dallas, TX at the Crowne Plaza Suites Hotel (972-233-7600). The meeting will begin at 9:00 a.m. on Thursday. Several ad hoc meetings are also scheduled:*

*Meeting Date Location / Contact*

-----

*SSM WG 02/20/02 Scotts Valley, CA / Seagate*

*PIP WG 02/21/02 Scotts Valley, CA / Seagate*

*PIP WG 04/02/02 Nashua, NH / Hitachi Cable*

*PIP Edit 04/03/02 Nashua, NH / Hitachi Cable*

*SSM WG 04/04/02 Nashua, NH / Hitachi Cable*

*The T10 web, ftp, and reflector sites are: <http://www.t10.org/> mirror site: <http://www.t11.org/t10/> ftp://ftp.t10.org/majordomo@t10.org*

**15.3 IEEE**

This was incorporated in the 10GFC report.

**15.4 IETF**

Elizabeth Rodriguez of QPackets made a presentation on the current status of IETF IPS activities.

### **15.5 FCIA**

Skip Jones made a brief and enthusiastic presentation on the recent activities of the FCIA.

### **15.6 4G Study Group Liaison Report**

Mike Fitzpatrick of Fujitsu made the following report:

- *Meeting Held Wed. 2/6*
- *52 people representing 30 companies*
- *Presentations made on technology, schedules and 3G vs. 4G*
- *Conclusions:*
  - *We don't need to move to the next step for a couple of years, e.g. 2004 time frame*
  - *Feeling that could move to 3G with today's technology*
  - *4G technology should be available in 1H03 for inclusion into 4G products in 2004 time frame*
  - *Civil discussions on 3G vs. 4G. Need stronger marketing input from FCIA and large integrators.*
- *4G Reflector being set up.*
- *Conference calls scheduled every 2 weeks (Wed. – 10AM PST)*

### **15.7 SNIA**

Steve Wilson of Brocade made the following presentation:

*Fibre Channel Working Group (SNIA) – Status February 2002*

*Face to Face Held on 1/22/02 – 30 Attendees*

*HBA API*

*Work Virtually Complete on Revision 2*

*Persistent Binding Work in Final Stages*

*Group Voted to Move HBA Work to T11*

*No New HBA API Work will Occur in the FCWG*

*CIM*

*Work Continues on the FC Service Modeling*

*Zoning*

*HBA API Attributes*

*Other FC-GS-4 Functions*

*Will Be a Part of the CIM Demo During SNW*

*CIM Will Now be the Focus of the FCWG*

### **15.8 SFF**

Bob Snively made a brief report on the SFF activities.

*Meeting Information*

*The meeting was held February 4, 2002 in Huntington Beach, CA.*

*The next meeting will be April 8, 2002 in Vancouver, BC, Canada.*

*Diagnostic monitoring*

*SFF- 8472 adding diagnostic monitoring has received some negative comments, which are now being resolved.*

*Serial 10 Gbit optical/ electrical converter module*

*Broadcom provided information on X- Connect, a technology for providing 10 Gbit copper connectivity to a 10 Gbit optical module (XFP) about ½ the size of a GBIC.*

*SFI-4 phase 2.*

*A 4- lane interface using 64/ 66 encoding was presented for communications that have a single clock domain.*

**15.9 T11.2/T11.3 Joint Status Report**

Schelto van Doorn made a presentation of document T11/02-084v0.

**15.10 OSD**

Ralph Weber made the following report:

*The SNIA OSD working group met on Tuesday, 22 January 2002 in San Jose, CA. Topics of discussion included virtualization and other features not planned for the current OSD working draft. Discussion of the current OSD working draft was limited to ten minutes at the end of the meeting.*

**15.11 Other Liaison Reports**

None

**16 Administrative Matters**

**16.1 Officer appointments**

*T11 TC and TG Officers*

*· The following persons are the officers for T11 TC:*

*· Bob Snively (Brocade Communications): Chair*

*· Ed Grivna (Cypress): Vice-Chair*

*· Neil Wanamaker (Akara): Secretary*

*· The following persons are the officers for T11 TGs:*

*· Schelto Van Doorn (Intel): Chair for T11.2*

*· Ed Grivna (Cypress): Vice-Chair for T11.2*

*· Bill Ham (Compaq): Secretary for T11.2*

*· Craig Carlson (QLogic): Chair for T11.3*

*· George Penokie (Tivoli): Vice-Chair for T11.3*

*· Bill Martin (Gadzoos): Secretary for T11.3*

**16.2 FTP AND WEB SITES FOR T11**

Roger Cummings of Veritas made the following presentation:

- *Again the Web and FTP sites seem to have worked well again since the last T11 plenary with almost zero maintenance*
- *And PSR actually moved locations, changed the server hardware, and rehosted the site on Win2K during that time!*
- *Questions have been asked about changing membership records during Letter Ballots*
- *New member companies cannot be added, nor can existing member companies be deleted*
- *Representatives CAN be changed*
- *Requires knowledge of a personal password for an existing Principal or Alternate*
- *Note for the Officers - The membership change link on your panel will presently not work during a Letter Ballot*
- *The records in the People database have middle initial field*
- *Contents of this field are not used in cross-linking a name with the Membership database*
- *This has been an ongoing source of confusion*
- *Proposal is to eliminate this field*
- *If you want to use an initial add it to the "First Name" field (e.g. "Roger J.")*
- *Please make sure there is ONE space between the first name and initial*
- *Firstname + " " + Lastname must exactly match the representative name in the Membership DB*
- *It's a pain, but it's not clear there's any better way!*
- *Note record in People DB can only be edited by Person himself*
- *Officers can create new records, edit all records*
- *Issue discovered with the daily, weekly and monthly zip files*
- *Where subdirectory names are greater than 8 characters they are truncated to 8 characters*
- *Filenames already limited by numbering scheme*
- *Only effects some subdirectories in "admin"*
- *plenary\_disks*
- *project\_proposals*
- *US\_Templates*
- *ISO\_Templates*
- *Can I rename these to 8 character names?*
- *Then I'll add some code to ensure that new directory names are restricted to the 8 character limit*
- *Would anybody who uses the zip files to create their own local mirror please send me e-mail*
- *So I can coordinate the above changes*
- *Fixed Meetings page to have separate links to Ad Hoc meeting and Teleconference forms*
- *Some of the projects have multiple "latest revisions" listed in the "Drafts" page*
- *MJSQ, MI, DA, FS, PI at last count*

- *Caused by the "Replaced Document" field not being filled in when a new revision is created*
- *Have to do this even when a new number is assigned (e.g. for a new year) by setting the "Is this a Revision" field to "No"*
- *Officers should be able to edit the latest revision to indicate that a previous one was "replaced"*
- *Have created an experimental Reflector Archive database*
- *Not yet linked in to the main HTML pages*
- *URL is [www.t11.org/t11/refarch.nsf](http://www.t11.org/t11/refarch.nsf) if you would like to look at it*
- *The layout is pretty ugly, but it seems to work*
- *The mirror site of t11.org at L&M (FCIA facilitator) is not perfect yet, but its getting there*
- *URL is <http://domino3.lm-mgmt.com>*
- *Databases are replicating OK*
- *Think we've solved the ftp site case sensitivity problem*
- *Just waiting for the ISP to initialize the site again from a new set of CDs that I've created - should happen any day.*
- *I'll make an announcement when this is done and its fully usable*
- *Currently the mirror will NOT copy files over until they are moved out of the incoming subdirectory*
- *Current email addresses for reporting problems:*
- *Server problems (web or ftp sites down etc.) - [support@psrsoftware.com](mailto:support@psrsoftware.com)*
- *Web site design problems - [t11webmaster@psrsoftware.com](mailto:t11webmaster@psrsoftware.com)*
- *Web site content problems (including membership problems, people and document register listings) - the officers of the relevant TC or TG*

It was noted that the FC-SW directory was in the wrong location.

The mail about postings for the T11 meeting did not go to the new reflectors; it was agreed to post these messages to both T11.2 and T11.3 reflectors.

### **16.3 Reflectors**

It was noted that the addresses of both reflectors had changed; subscribers to the old reflectors were added to the new. For information on subscribing or posting to the reflectors, see the T11 website.

## **17 Future meeting schedule**

### **17.1 April Meeting Announcement**

The April T11 Plenary week will be held the week of 4/8-4/12/2002, hosted by Brocade.

Host Person:

Robert Snively

Host Person EMail:

[rsnively@brocade.com](mailto:rsnively@brocade.com)

Hotel:

Crowne Plaza - Hotel Georgia Vancouver

Address:

801 West Georgia St.

City:

Vancouver

State/Province:

BC

Zip or PostCode:

V6C 1P7

Country:

Canada

Phone:

604-682-5566

Toll Free Phone:

1-800-663-1111

Fax:

604-642-5579

Group Name:

Brocade

Cutoff Date:

03/07/2002

Room Rate:

\$86.00 USD \$129 CAD.

Attractions:

Located at the corner of West Georgia and Howes Street in the heart of the downtown business, shopping and entertainment districts. Across from Pacific Centre Mall, the Art Gallery and the Vancouver Stock Exchange. Walking distance to Vancouver Trade and Convention Centre/Cruise Ship Terminal.

**17.2 April Meeting Map**

T11/02-106v0

```

=====
                        T11 PLENARY WEEK - April 8-12, 2002
                        Vancouver, BC
Monday
4/8      8  9  10  11  12  1  2  3  4  5  6  7  8  9
                +-----+
                | T11.3 10GFC |
                +-----+
35/50    | MJSQ |lunch| MJSQ | *SFF XCVR* |
    
```

40/40/50	FC-SW-3 \lun\ FC-SW-3 \ DA \ \  *FCIA*
Tuesday	
4/9	8 9 10 11 12 1 2 3 4 5 6 7 8 9
50/80	FC-BB-2 \lun\ BB\ FC-AL-2/FS
45/45/30	T11.2-COPPER  lunch  T11.2-OPT   *FCIA*
80/80	FA-MIB  Joint .2&.3
Wednesday	
4/10	8 9 10 11 12 1 2 3 4 5 6 7 8 9
50/60	FC-GS-4 \lun\GS4\ Security \
15/60	Phy Modeling lunch  T11.2 Plenary
20	FC-AE-2  lun  FC-AE-2 Study
15	10GFC Com Res
30/100	*FCIA*  XXX  Reception

Thursday - PLENARY

4/11	8 9 10 11 12 1 2 3 4 5 6 7 8 9
70/100/60	11.3  lun  T11 PLENARY    Plenary

Friday

4/12	8 9 10 11 12 1 2 3 4 5 6 7 8 9
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\* = NOT A T11 MEETING

\ = if meeting ends early, next meeting starts immediatly

17.3 Future meeting Schedule

=====

2/7/2002

2002 Through 2003 T11 Meeting Schedules

2002 Dates	Proposed Locations	Host
-----	-----	----
APRIL 8-12	Vancouver, BC	Brocade
JUNE 10-14	Rochester, MN	True Focus
AUGUST 5-9	Seattle, WA	Vixel/Stratos
OCTOBER 7-11	New Orleans, LA	Infinty I/O
DECEMBER 9-13	Tucson, AZ	FSI
2003 Dates	Proposed Locations	Host
-----	-----	----
FEBRUARY 3-7	Huntington Beach, CA	QLogic

APRIL 7-11	Santa Fe, NM	Brocade
JUNE 2-6	Minneapolis, MN (?)	Wavecrest
AUGUST 4-8	Portsmouth, UK (?)	Xyratex
OCTOBER 6-10	(?)	Infinity I/O
DECEMBER 1-5	(?)	Solution Tech
<b>2004 Dates</b>	<b>Proposed Locations</b>	<b>Host</b>
-----	-----	----
FEBRUARY 2-6	Huntington Beach, CA(?)	QLogic
APRIL 5-9	(?)	Brocade
JUNE 7-11		
AUGUST 2-6		
OCTOBER 4-8		
DECEMBER 6-10		

No objection to holding meeting in Santa Fe in April, 2003.

Tentative: Feb 04 QLogic, HB

Apr 04 Brocade, location TBD.

#### 17.4 Guidelines for Meeting Hosts

This report has been posted to the website as 01-498v1, and will have the room-nights information updated.

#### 18 Review of action items

01-027. IR to take action on T11 recommendation that NCITS forward FC-PI and FC-FS when available to JTC1 for processing as international standards.

01-028. IR to take appropriate action on T11 recommendation that NCITS withdraw FC-PH, FC-PH-2, FC-PH-3 from international standardization, as they will be replaced by FC-PI and FC-FS.

01-042. IR to forward the latest version of FC-SB-2 to JTC1/SC25 for processing as a FCD. The proposed Project Editor is Gary S. Robinson. In addition, IR to carry out T11 recommendation to the JTC1 TAG to rescind its previous position to Fast Track this project as a NP exists.

02-001 Chair, in conjunction with TG chairs, to bring Project Status Summary up to date.

02-002 Roger Cummings to provide web-based update of Project Status Summary.

02-003 Chair to communicate with T10 chair re: handling of LB jeopardy.

02-004 Chair to forward closure of FC-CU TR, project 1135-DT, to INCITS.

02-005 Chair to forward FC-AV rev. 1.71 (T11/01-344v2) to INCITS for further processing, including Second Public Review

02-006 Chair to forward FC-AE rev. 2.6 to INCITS for further processing.

02-007 Jim Nelson to provide rev. 1.70 of FC-FS to Chair

02-008 Chair to conduct LB on rev. 1.70 of FC-FS for forwarding to INCITS for further processing, including 1PR.

02-009 IR post CD ISO/IEC 14165-114, 100 MB/s Twisted Pair Physical Interface (FC-100-TP).

02-010 Bill Ham & Greg McSorly to incorporate SM-LL-V into FC-PI-2.

02-010 Chair to convey T11 recommendations on 5-year standards review to INCITS.

**19 Adjournment**

It was moved by Jeanne Truestedt of True Focus and seconded by Jim Nelson of Vixel to adjourn. The motion passed unanimously, and the meeting was adjourned at 3:53 PM PST.

## \*\*\* February, 2002 T11 Plenary Attendance \*\*\*

Adaptec	Neil MacLean
Akara	Neil Wanamaker
AMP / TYCO	Dean Vermeersch
Amphenol	Michael Wingard
Ancot	Jan V. Dedek
Andiamo	Claudio DeSanti
Big Sur	Pak Seto
Boeing	Michael S. Foster
Brocade	Robert Snively
Brocade	Steven L. Wilson
Brocade	Tracy Supnet
Cisco	David Peterson
CNT	Bret Ketchum
Compaq	Bill Ham
COMPAQ	Don Fraser
Connect'y Sol'ns	Robert W. Kembel
Corning	Doug Coleman
Crossroads	John Tyndall
Cypress Semi	Edward Grivna
EMC	David Black
EMC	Gary S. Robinson
Emulex	Bob Nixon
ENDL	Ralph Weber
FCI	Kevin Oursler
FSI	Gary Stephens
Fujitsu	Mike Fitzpatrick
General Dynamics	Robert Pedersen
Hitachi	Masayuki Yamamoto
Hitachi	Naoki Watanabe
HP	Predrag Spasic
IBM	John Scheible
Infineon	Richard Johnson
Infinity I/O	Alan Land
Inrange	Gregory Koellner
Intel	Rich Taborek
Intel	Schelto Van Doorn
Karthika	Clement Kent
Karthika	Daniel Thanos
Lightsand	Murali Rajagopal
Lockheed Martin	Rick Allison
LSI	Denise Ridolfo
LSI Logic	Curtis Ridgeway
Lucent	Bill Krieg

Madison	Andrew Nowak
McData	Michael O'Donnell
Molex	Jay H. Neer
MTI	Rich Ramos
NGS	Gary Warden
Nishan	Charles Monia
QLogic	Craig Carlson
QPackets	Elizabeth G. Rodriguez
Rhapsody	Ed McClanahan
SANCASTLE	Dennis Talluto
Seagate	Paul Suhler
Smiths	John Schroeder
Solution Tech.	David Deming
Sony	Jeff Mendiola
Sony	Mai Nguyen
StMicroelectron	Mike Jensen
STORAGETEK	Matt Gaffney
Sun Microsystem	Vit Novak
Systran	Alan Fearday
True Focus	Jeanne Truededt
TrueFocus	Horst Truededt
Unisys	Wayne Gentry
US Conec	Kevin White
Veritas	Roger Cummings
Vixel	James Nelson
Xyratex	Paul Levin