

**Draft Minutes of T11 Plenary Session #66  
December 9, 2004  
Hyatt Grand Champion, Indian Wells, CA**

**1 Opening Remarks and Introductions**

The meeting was opened at 3 PM by Bob Snively of Brocade, T11 Chair.

Neil Wanamaker of Finisar served as Secretary.

Bob thanked Ali Ghiasi and Broadcom for hosting this meeting week.

Bob then led a round of introductions.

Bob stated that the deadline for the next T11 mailing would be 11:59 PM, December 23, 2004. Documents are placed in the mailing by posting them to the [www.t11.org](http://www.t11.org) website. Postings can be made by any member. Begin by using the "Docs" button, then using the "number document" button. After successfully filling out the registration form for the document, you will be supplied with the several means of uploading the document.

**1.1 Meeting guidelines**

The Chair stated that the meeting was operating under INCITS procedures, and called special attention to the ANSI patent policies and the INCITS antitrust policies. He called especial attention to sections 16 and 17 of the agenda.

**1.2 Electronic Attendance**

Instructions were provided by the Chair as to how to sign into the meeting using the electronic attendance program.

**1.3 Meeting Documents**

The Chair noted that meeting documents are obtainable from <ftp://ftp.t11.org/latest>

**1.4 Remarks from Patrick Morris, Director of INCITS**

Mr. Morris discussed the activities of INCITS, including the formation of a new Technical Committee E22 on Item Authentication and the endorsement of the standard for Facial Recognition by the Homeland Security Agency.

**2 Approval of the Agenda**

The agenda was posted as T11/04-736v1; T11/04-736v2 was displayed.

It was moved by Bill Ham and seconded by Vit Novak to approve the agenda as presented. The agenda was approved unanimously.

**3 Attendance and Membership**

At the beginning of the meeting the membership stood at 52.

**3.1 Roll Call of Members in Jeopardy for Non-Attendance**

Dot Hill

P Elizabeth G. Rodriguez (present)

IBM

P Ken Hallam

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A Robert Dugan (present)

ST Microelectronics

P Gianfranco Scherini (present)

A Roland Marbot

StorageTek

P Matt Gaffney (present)

A Joe Gruba

Texas Instruments

P Rajeev Jain

A Stephen Hubbins (present)

Tyco Electronics

P Andrew Nowak

A Michael Fogg (present)

All organizations in jeopardy were represented and so retain membership.

### **3.2 Roll call of members in jeopardy for not responding to letter ballots**

None

### **3.3 Roll call of members in jeopardy for non-payment of fees**

None

### **3.4 Announcement of new members and changes**

#### **Representative Changes:**

AGERE: Adam Healey replaces John Kulick as Principal. Stephan Bedrosian replaces Jeffrey Saunders as alternate.

Agilent: Gregg Goyins removed as Additional Alternate.

AMCC: Dirk Colpaart and Scott Denton removed as Additional Alternates. Scott Denton replaces Mike Scholten as Alternate.

CIENA: Sashi Thiagarajan added as Alternate.

Cisco: Fabio Maino removed as Additional Alternate.

CNT: Harry V. Paul replaces Bret Ketchum as Alternate.

Hitachi DS: Eric Hibbard replaces Hidehisa Shitomi as Principal.

HP: Vinod Bhat replaces Mark Hamel as Alternate.

PacketLight: Koby Reshef added as Alternate.

PMC-Sierra: Richard Cam replaces William Wang as Alternate.

Tyco: Michael Fogg replaces Bob Atkinson as Alternate.

#### **New Members:**

Finisar becomes a new member with Neil Wanamaker as Principal.

Hitachi America becomes a new member with Hidehisa Shitomi as Principal and Nobuyuki Osaki as Alternate.

Phyworks becomes a new member with David Lewis as Principal and Chris Bryson as Alternate

With the addition of three members and the loss of no members the membership becomes 55.

### 3.5 T11 voting membership

The current membership of the committee is as follows:

Agere	P..... Adam Healey
Agere	A..... Stephan Bedrosian
Agilent	P..... Roy Elsbernd
Agilent	A..... Narayan Ayalasomayajula
AMCC	P..... Haluk Aytac
AMCC	A..... Scott Denton
AMPHENOL	P..... Michael Wingard
AMPHENOL	A..... Ron Kleckowski
Ancot	P..... Jan V. Dedek
Ancot	A..... Bart Raudebaugh
Broadcom	P..... Ali Ghiasi
Broadcom	A..... Murali Rajagopal
Brocade Comms.	P..... Robert Snively
Brocade Comms.	A..... Steven L. Wilson
Ciena	P..... Chris Janz
Ciena	A..... Sashi Thiagarajan
Cisco	P..... Silvano Gai
Cisco	A..... Claudio DeSanti
CNT	P..... David Peterson
CNT	A..... Harry V. Paul
Corning	P..... Doug Coleman
Corning	A..... Steve E. Swanson
Crossroads Sys.	P..... John Tyndall
Crossroads Sys.	A..... Dexter Anderson
Crossroads Sys.	A#..... David Douglas
Dot Hill	P..... Elizabeth Rodriguez
EMC	P..... Gary S. Robinson
EMC	A..... Gregory McSorley
Emulex	P..... Bob Nixon
Emulex	A..... Ken Hirata
ENDL	P..... Ralph Weber
ENDL	A..... Dal Allan
eSilicon Corporation	P..... Frank Barber
eSilicon Corporation	A..... Rakesh Chadha
FCI	P..... Kevin Oursler
FCI	A..... David Sideck
Finisar	P..... Neil Wanamaker
FSI	P..... Gary Stephens
Fujikura	P..... Nabil Osman
Fujikura	A..... Hari Naidu
Fujitsu	P..... Mike Fitzpatrick
General Dynamics	P..... Tim Luthens
General Dynamics	A..... Kent Lindell

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Hitachi America	P..... Hidehisa Shitomi
Hitachi America	A..... Nobuyuki Osaki
Hitachi Data Sys	P..... Eric Hibbard
Hitachi GST	P..... Dan Colegrove
Hitachi GST	A..... Werner Glinka
Hewlett Packard	P..... Bill Ham
Hewlett Packard	A..... Vinod Bhat
IBM	P..... Ken Hallam
IBM	A..... Robert Dugan
Infineon	P..... Richard Johnson
Infineon	A..... Vasanta Rao
Intel	P..... Schelto van Doorn
Intel	A..... Bill Bissonette
JDS	P..... Eric Borisch
JDS	A..... Effie Favreau
LSI Logic	P..... Curtis Ridgeway
LSI Logic	A..... Michael Jenkins
LSI Logic	A#..... John Lohmeyer
Lucent	P..... Richard Di Pasquale
McData	P..... Scott Kipp
McData	A..... Larry Hofer
Molex	P..... Jay Neer
Nortel	P..... Graham Copley
Northrop Grumman	P..... James Nelson
PacketLight	P..... Navot Oren
PacketLight	A..... Koby Reshef
PhyWorks	P..... David Lewis
PhyWorks	A..... Chris Bryson
PMC-Sierra	P..... Yuriy Greshishchev
PMC-Sierra	A..... Richard Cam
PrecisionFC	P..... Gary Warden
PrecisionFC	A..... Jing Kwok
QLogic	P..... Craig Carlson
QLogic	A..... Skip Jones
QLogic	A#..... Ed McGlaughlin
Seagate	P..... James Coomes
Seagate	A..... Allen Kramer
Sierra-Logic	P..... William R. Martin
Sierra-Logic	A..... Matt Wakeley
Smiths Aerospace	P..... John Schroeder
Smiths Aerospace	A..... Todd Pepper
Solution Tech.	P..... Robert Kembel
Solution Tech.	A..... David Deming
ST	P..... Gianfranco Scherini
ST	A..... Roland Marbot
StorageTek	P..... Matt Gaffney
StorageTek	A..... Joe Gruba
Sun Microsystems	P..... Vit Novak
Sun Microsystems	A..... Steve Sletten
Tartan	P..... Rich Taborek
Tartan	A..... Arline Taborek
TI	P..... Rajeev Jain

TI	A..... Stephen Hubbins
TrueFocus	P..... Horst Truedstedt
TrueFocus	A..... Jeanne Truedstedt
Tyco	P..... Andrew Nowak
Tyco	A..... Michael Fogg
Veritas	P..... Roger Cummings
Veritas	A..... Roger Reich
Xyratex	P..... Paul Levin
Xyratex	A..... Rich Ramos

### **3.6 Membership in TC T11 & TGs T11.2, T11.3, and T11.5**

Information on how membership is gained, maintained, and lost in any INCITS Technical Committee can be found in <http://www.incits.org/rd2/main.htm>

### **4 Document Distribution**

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

### **5 Approval of Minutes - T11 Meeting #65, Austin, TX**

The minutes of meeting #65, October 7, 2004 (T11/04-714v1), were reviewed.

It was moved by Jeanne Truedstedt and seconded by Vit Novak to approve the minutes as posted. The motion carried by acclamation.

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

From meeting of October 7, 2004

03-001 TG Chairs to update Project Status Sheet.

Ongoing

03-002 All editors, when posting drafts, upload zip of source to hidden directory

Ongoing.

04-008 Chair to ensure that the withdrawn but maintained (still available documents) are handled correctly by INCITS.

Email sent on March 5 to determine procedures. Reminder March 26.

Indication that they are checking with the ANSI store on the mechanisms.

Barra indicates work is still in process.

04-009 Roger Cummings to investigate projects associated with withdrawn standards be made accessible on the website.

Pending information from INCITS, see Action Item 04-008.

04-067 T11.5 Chair to forward SM-FAM to IETF imsss.

Completed. See T11/04-711v0.

04-069 Chair to forward FC-MSQS Project Proposal to INCITS for further processing

Completed. See T11/04-725v0.

04-070 Chair to forward FC-PI-2 rev. 7 to INCITS for further processing, including first public review

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Completed. See T11/04-724v0.

04-071 Chair to conduct T11 Letter Ballot on FC-MI-2

Completed. See T11/04-721v0. Closed 11/19/2004.

04-072 Chair to forward FC-DA-2 Project Proposal to INCITS for further processing

Completed. See T11/04-726v0.

04-073 Chair to forward request for withdrawal of FC-AE-LP project.

Completed. See T11/04-727v0.

04-074 IETF Liaison to forward SM-NSM and results of vote to IETF.

Completed. See T11/04-712v0.

04-075 Chair to make ISO patent request for FC-SW-3.

Completed. See T11/04-664v1. Additional call for patents was provided to all by e-mail.

04-076 MJSQ Editor and IR to get draft of MJSQ-ISO to ISO editor.

FC-MJSQ transferred to IR. Transfer to ISO pending

04-077 IR to convey results of ISO votes to US delegation to SC25 WG4.

Completed. See T11/04-818v1.

04-078 Chair to produce customary liaison reports.

Completed. See T11/04-754v0, T11/04-824v0, and

## **7 Review of T11 Project and Proposal Status**

### **7.1 Project Status Review**

The T11 Project status sheet was displayed. See [WWW.t11.org](http://WWW.t11.org), using the button "Projects".

### **7.2 INCITS Project Status Report (T11/04-824v0):**

Bob Snively, T11 Chair, presented the following report:

*1) Project proposals approved:*

*FC-MSQS*

*The 7-day review for Information technology - Fibre Channel Methodologies for Signal Quality Specification (FC-MSQS) to approve this project proposal ended on November 4, 2004, and the number assigned to this project is 1734.*

*For approval notification, please see:*

*<http://www.incits.org/archive/2004/in041418/in041418.htm>*

*FC-DA-2*

*The 7-day review for Information technology - Fibre Channel Device Attach (FC-DA-2) to approve this [corrected] project proposal ended on November 26, 2004, and the number assigned to this project is 1739.*

*For approval notification, please see:*

*<http://www.incits.org/archive/2004/in041416/in041416.htm>*

*2) Documents in approval process:*

*FC-SWAPI*

*Project 1600 - INCITS 399-2004, Information technology - Fibre Channel Switch API (FC-SWAPI) was approved as new standard on November 29, 2004. It should be published in about 1-2 weeks.*

*FC-PI-2*

*Project 1506- INCITS 404, Information Technology - Fibre Channel - Physical Interfaces (FC-PI-2) is currently out for public review. The public review period is from November 5, 2004 - December 20, 2004.*

*FC-DA*

*Project 1513 - TR-36 - Information technology - Fibre Channel Device Attach*

*(FC-DA) was approved for publication at the September 2004 INCITS meeting, and has been forwarded to ANSI for publication. Additional editorial questions needed to be resolved. Estimated publication end of December,*

*2004.*

*3) Documents in withdrawal process:*

*SM-AMD*

*Project 1606 - Information technology -SAN Management - Attribute & Method Dictionary (SM-AMD) has been withdrawn.*

*SM-MM*

*Project 1607 - Information technology - SAN Management - Management Model (SM-MM) has been withdrawn.*

*FC-AE-LP*

*INCITS 846 letter ballot closed on November 28, 2004 approving the withdrawal of Project 1650-DT, Information technology - Fibre Channel Avionics Environment - SCSI-3 Lightweight Protocol (FC-AE-LP).*

*4) Documents published*

*FC-MJSQ*

*Project 1316 - TR-35 -Information technology - Fibre Channel - Methodology of Jitter and Signal Quality Specification (FC-MJSQ) was published.*

*A question was raised about the status of TR-25, which FC-MJSQ apparently replaces.*

*5) Other standard status*

*FC-PI*

*INCITS 698 letter ballot closed on November 4, 2004 approving the T11 response for interpretation of INCITS 352:2002, Information Technology - Fibre Channel - Physical Interfaces (FC-PI).*

**Action items required by INCITS:**

*None*

**8 Results of Non-ISO Letter Ballots**

**8.1 FC-MI-2 Forwarding**

The T11 Letter Ballot completed on November 19, 2004. The ballot carried, with 45 For, 1 Opposed, with 2 Abstaining and 4 Not Voting. 8 affirmative ballots included comments. This meets the two-thirds rule. There were 294 total comments.

## 9 Old Business

### 10 Task Group T11.2 Physical Variants

#### 10.1 T11.2 Plenary Meeting Report

Schelto van Doorn of Intel, T11.2 Chair, made the following report:

*The present membership is 45*

*Optical WG - Rich Taborek*

- 8G conference calls and status, Tom Lindsay*
- 8GFC Optical, Where Are We?, Tom Lindsay, ClariPhy*
- Unresolved ISO comments on FC-PI with suggestions, Schelto*
- FC-PI-3 Physical Variant discussion led by Greg McSorley, EMC*
- Tom presented a study based on data he had previously collected illustrating the potential benefits of EDC.*
- Motion that the 1310 and 1550 nm long haul links clauses be removed from FC-PI-3. Motion passed*
- Motion to remove material in FC-PI-3 that describes the 1310 nm 10Glink described in the project proposal and to add material that describes a new variant that is the same as the removed variant except that the data rate is 4 Gbps and the distance objective is removed. Motion passed*
- Motion that the Optical ad hoc recommend to the T11.2 plenary that the project proposal contained in 04-753v0 be accepted. Motion passed*

*Electrical WG – Mike Jenkins*

*Presentations:*

- 8G FC gamma point tests (T11/04-763v0), Tom Palkert*
- 8Gig FC Architectural Implementation (T11/04-811v0), Ali Ghiasi*
- 8GFC RX Equalization (T11/04-817v0), Mark Marlett*
- Training control signaling (T11/04-808v0), Vince Cavanna*
- Proposal for Transmit Adaptive Equalization (T11/04-805v0), Adam Healey*
- Motion that the Electrical ad hoc recommend to the T11.2 plenary that the project proposal contained in 04-753v0 be accepted.*

*MSQS – Bill Ham*

- Dean Vermeersch to provide statements relating to the suitability of using S-parameters for transmitter device return loss.*
- Request of VNA suppliers: add a 4 port VNA capability (software) that drives differentially but looks at each half output separately*
- The round robin set up between simulators in FCSM-2 was continued in this meeting*

*FCSM-2 – Bill Ham*

*Presentation from Agilent on their Advanced Design System (ADS)*

- Two areas were identified for ADS that required further investigation:*

*o Launching signals with known amounts of jitter*

*o Tolerance effects from behavioral models*

*A conceptual method of handling tolerance effects in models with S parameter descriptions was proposed and tentatively accepted*

*A round robin was set up between simulators that appear capable of accepting and executing the models developed.*

*Motions on behalf of T11.2:*

*· That the T11 plenary approve the changes documented in 04-837v0 (changes to FC-MJSQ)*

*· That the T11 plenary approve the withdrawal of INCITS-TR- 25-1999 (FC-MJS)*

*(Note: this withdrawal is due to the publication of FC-MJSQ that supersedes FC-MJS)*

*· That the T11 plenary approve the project proposal contained in 04-753v0 (10 GFC amendment project proposal).*

**10.2 Proposals for new projects**

**10.2.1 10GFC Amendment Project Proposal**

Schelto van Doorn moved, on behalf of T11.2, to forward the 10GFC Amendment Project Proposal, T11/04-753v0, to INCITS for further processing. It was noted that this document meets the two-week rule.

The motion carried 43 For, 0 Opposed, with 0 Abstaining and 11 Not Voting

**10.3 Other Actions**

**10.3.1 Approval of Editorial Corrections to MJSQ**

Schelto van Doorn moved, on behalf of T11.2, to approve the editorial corrections to INCITS TR35:2004 embodied in document T11/04-837v0, and forward these to INCITS for further processing.

The motion carried 43 For, 0 Opposed, with 0 Abstaining and 11 Not Voting

**10.4 Withdrawal of MJS**

Schelto van Doorn moved, on behalf of T11.2, to approve the withdrawal of INCITS TR25:1999 (FC-MJS).

It was noted that TR35 (MJSQ) has fully replaced MJS, and that this fact was stated in TR35.

The results of the rollcall vote were:

Agere	P.....	Adam Healey	y
Agere	A.....	Stephan Bedrosian	
Agilent	P.....	Roy Elsbernd	y
Agilent	A.....	Narayan Ayalasomayajula	
AMCC	P.....	Haluk Aytac	
AMCC	A.....	Scott Denton	y
AMPHENOL	P.....	Michael Wingard	nv
AMPHENOL	A.....	Ron Kleckowski	
Ancot	P.....	Jan V. Dedek	nv
Ancot	A.....	Bart Raudebaugh	
Broadcom	P.....	Ali Ghiasi	y
Broadcom	A.....	Murali Rajagopal	
Brocade Comms.	P.....	Robert Snively	y
Brocade Comms.	A.....	Steven L. Wilson	
Ciena	P.....	Chris Janz	

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Ciena	A.....	Sashi Thiagarajan	y
Cisco	P.....	Silvano Gai	
Cisco	A.....	Claudio DeSanti	y
CNT	P.....	David Peterson	
CNT	A.....	Harry V. Paul	y
Corning	P.....	Doug Coleman	y
Corning	A.....	Steve E. Swanson	
Crossroads Sys.	P.....	John Tyndall	nv
Crossroads Sys.	A.....	Dexter Anderson	
Crossroads Sys.	A#.....	David Douglas	
Dot Hill	P.....	Elizabeth Rodriguez	y
EMC	P.....	Gary S. Robinson	nv
EMC	A.....	Gregory McSorley	
Emulex	P.....	Bob Nixon	y
Emulex	A.....	Ken Hirata	
ENDL	P.....	Ralph Weber	y
ENDL	A.....	Dal Allan	
eSilicon Corporation	P.....	Frank Barber	nv
eSilicon Corporation	A.....	Rakesh Chadha	
FCI	P.....	Kevin Oursler	y
FCI	A.....	David Sideck	
Finisar	P.....	Neil Wanamaker	y
FSI	P.....	Gary Stephens	y
Fujikura	P.....	Nabil Osman	nv
Fujikura	A.....	Hari Naidu	
Fujitsu	P.....	Mike Fitzpatrick	y
General Dynamics	P.....	Tim Luthens	nv
General Dynamics	A.....	Kent Lindell	
Hitachi America	P.....	Hidehisa Shitomi	y
Hitachi America	A.....	Nobuyuki Osaki	
Hitachi Data Sys	P.....	Eric Hibbard	y
Hitachi GST	P.....	Dan Colegrove	y
Hitachi GST	A.....	Werner Glinka	
Hewlett Packard	P.....	Bill Ham	y
Hewlett Packard	A.....	Vinod Bhat	
IBM	P.....	Ken Hallam	
IBM	A.....	Robert Dugan	y
Infineon	P.....	Richard Johnson	y
Infineon	A.....	Vasanta Rao	
Intel	P.....	Schelto van Doorn	y
Intel	A.....	Bill Bissonette	
JDS	P.....	Eric Borisch	y
JDS	A.....	Effie Favreau	
LSI Logic	P.....	Curtis Ridgeway	
LSI Logic	A.....	Michael Jenkins	
LSI Logic	A#.....	John Lohmeyer	y
Lucent	P.....	Richard Di Pasquale	y
McData	P.....	Scott Kipp	y
McData	A.....	Larry Hofer	
Molex	P.....	Jay Neer	y
Nortel	P.....	Graham Copley	y
Northrop Grumman	P.....	James Nelson	y

PacketLight	P..... Navot Oren	
PacketLight	A..... Koby Reshef	y
PhyWorks	P..... David Lewis	nv
PhyWorks	A..... Chris Bryson	
PMC-Sierra	P..... Yuriy Greshishchev	nv
PMC-Sierra	A..... Richard Cam	
PrecisionFC	P..... Gary Warden	y
PrecisionFC	A..... Jing Kwok	
QLogic	P..... Craig Carlson	y
QLogic	A..... Skip Jones	
QLogic	A#..... Ed McGlaughlin	
Seagate	P..... James Coomes	y
Seagate	A..... Allen Kramer	
Sierra-Logic	P..... William R. Martin	y
Sierra-Logic	A..... Matt Wakeley	
Smiths Aerospace	P..... John Schroeder	nv
Smiths Aerospace	A..... Todd Pepper	
Solution Tech.	P..... Robert Kembel	nv
Solution Tech.	A..... David Deming	
ST	P..... Gianfranco Scherini	y
ST	A..... Roland Marbot	
StorageTek	P..... Matt Gaffney	y
StorageTek	A..... Joe Gruba	
Sun Microsystems	P..... Vit Novak	y
Sun Microsystems	A..... Steve Sletten	
Tartan	P..... Rich Taborek	y
Tartan	A..... Arline Taborek	
TI	P..... Rajeev Jain	
TI	A..... Stephen Hubbins	y
TrueFocus	P..... Horst Truestedt	
TrueFocus	A..... Jeanne Truestedt	y
Tyco	P..... Andrew Nowak	
Tyco	A..... Michael Fogg	y
Veritas	P..... Roger Cummings	y
Veritas	A..... Roger Reich	
Xyratex	P..... Paul Levin	
Xyratex	A..... Rich Ramos	y

The motion carried 44 For 0 Opposed, with 0 Abstaining and 10 Not Voting. This meets the two-thirds rule.

**10.5 Other Items**

None

**11 Task Group T11.3 Interconnection Schemes**

**11.1 T11.3 Plenary meeting Report**

Craig Carlson of QLogic, T11.3 Chair, made the following report:

*Development:*

*Fabric Expansion Study – Inter-Fabric Routing Project Proposal, Transport Fabric Model – Discovery, Fabric Routing FC\_ID Translation*

*FC-AE-x – Fast Fabric Initialization, reviewed FC-AE-RDMA draft*

*FC-BB-3 – Reviewed editorial issues with BB-3 draft, Presentation on Pseudo Wire, expecting to go to LB in February*

*FC-FS-2 – Clarifying Credit Accounting, Fix Clock Sync. primitive values, Virtual Fabric Definitions, NAA Type 4 Obsolescence*

*FC-GS-5 – GMAL clarification, Invalid CT\_IU checking, Registration command clarification, CT Confidentiality*

*FC-LS – Clean-up of removed Basic Link Services, Clarifying Credit Accounting, Zoned ELS Response, Clean up F\_RJT/LS\_RJT error codes, FDISC, Event Notification*

*FC-SW-4 – Blending Basic and Enhanced Zoning, Zoning Questions, Enhanced Commit Service, Virtual Channels, Event Notification, Switch EE\_Credit, Virtual Fabric B\_Port Support, Fast Initialization*

*IPv4 over FC – Reviewed combined IPv6/IPv4 over FC, will be conducting T11.3 Letter Ballot Approval*

*FC-DA-2 – FC-SP, Optional and Extended Headers, Virtual Fabrics, Ping and Trace Route*

*FC-MI-2 – Start LB Comment Resolution*

*FC-SP – Continue LB Comment Resolution*

Motion to recommend to ISO to accept the comments 04-821v0 from ISO on FC-FS (see ISO motions).

## **11.2 Proposals for new projects**

### **11.2.1 FC-IFR Project Proposal**

Craig Carlson moved, on behalf of T11.3, to accept the project proposal presented in 04-755v1 for Fibre Channel Inter-Fabric Routing (FC-IFR) incorporated in T11/04-755v1, and to forward this to INCITS for further processing. It was noted that the document meets the two-week rule.

The motion carried 41 For, 0 Opposed, with 1 Abstaining and 13 Not Voting. This meets the two-thirds rule.

## **11.3 T11.3 Actions**

## **11.4 Other Items**

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

### **12.1 Improved Idle Character (FC-FS-2 and 8 Gb/s study)**

## **13 Task Group T11.5 - Storage Network Management**

### **13.1 T11.5 Plenary Meeting Report**

Roger Cummings of Veritas, T11.5 Chair, made the following report:

- *38 people attended Plenary #14 on Thursday 12/9*
- *No organizations gained or lost membership. Membership of T11.5 remains at 32 orgs*

#### *Ad Hoc Reports*

##### *SM-HBA Ad Hoc*

- *10 people present on 12/8*
- *Approved 5 proposals that define sections of the SM-HBA*
- *Presentation made on adding in more library control, HBA, port, and phy functions into SM-HBA*

##### *Management Ad Hoc*

- *8 people present on 12/8, 7 present on 11/18 telecon*

- Reviewed initial drafts for SM-RTM & SM-FSM
- Approved a PP for SM-VFM (04-750v2)

#### FAIS

- 13 people present on 11/16, 15 on 12/8
- Reviewed XMAP optimization proposal, Chapter 3 Definitions, iSCSI as it Applies to FAIS, Resource Management, proposed FAIS API

#### T11.5 Motions

- T11.5 voted F23-000-A01-DNV8 to T11.5 request that T11 approve the SM-VFM Project Proposal contained in 04-750v2 (v1 as modified at the Management Ad Hoc) as an Internal T11 Contribution project”

#### Meeting requests for February 2005

- SM-HBA Ad Hoc - 3 hours (Wednesday 3-6pm)
- FAIS Ad Hoc - 6 hours (same day if possible)
- Management Ad Hoc - 4 hours (Wednesday 9am-1pm)
- Plenary - 1 hour
- Ad Hoc telecons
- FAIS Ad Hoc teleconference week of 1/10/2005

### 13.2 Proposals for New Projects

#### 13.2.1 Project Proposal for Virtual Fabric MIB (IETF Contribution)

Roger Cummings moved, on behalf of T11.5, to request that T11 approve the SM-VFM Project Proposal contained in 04-750v2 (v1 as modified at the Management Ad Hoc) as an Internal T11 Contribution project.

The motion carried 40 For, 0 Opposed, with 1 Abstaining and 14 Not Voting. This meets the two-thirds rule.

#### 13.3 Other Actions

#### 13.4 Other Items

None

### 14 Review of International Activity

#### 14.1 ISO Status Report

Claudio DeSanti, on behalf of Gary Robinson of EMC, T11 IR, made a report on ISO status (T11/04-818v1):

1. Project 1.25.13.13.15 - Fibre Channel (FC) Generic Services 4 (FC-GS-4) [14165-414] GS-4 FCD text sent to SC25 TAG for contributing to SC25, SC25 TAG voted Approve on this NWIP, SC25 N1018
2. Project 1.25.13.13.18 - Fibre Channel (FC) Audio-Visual Transport (FC-AV) [14165-321] FCD Approved, SC25 N923. FDIS approved in final editing.
3. Project 1.25.13.13.20 - Fibre Channel (FC) Back Bone (FC-BB-2) [14165-241] FCD Submitted 25n894, out for ballot, SC25 TAG votes Approve
4. Project 1.25.13.13.21 - Fibre Channel (FC) 100 Twisted Pair (FC-100-TP) [14165-114], SC25N757 US voted NO with comments but FCD has been approved. FDIS out for ballot. I assume, based upon past history, we vote NO and generate comments against ISO\_IEC\_FDIS\_14165-114.zip.

5. Project 1.25.13.13.22 - Fibre Channel (FC) Framing and Signaling Interface (FC-FS) [14165-251] FCD approved with comments. T11 needs to respond, [draft resolution of comments SC 25 N 995 with a kind request to have a look at the proposed resolutions especially to FR3. The 3,5 ns/m presently specified really are far below reality. If I'm not mistaken 3,3 ns/m are achieved in the vacuum. ISO/IEC 11801 specifies millions between 0,580 and 0, 545 microseconds/100m for balanced cables, thus that the value 5,5 ns/m sounds okay.]
6. Project 1.25.13.13.24 - Fibre Channel (FC) Physical Interface (FC-PI) [14165-115], N971 FCD approved with comments, need FDIS text and RoC.
7. Project 1.25.13.13.25 - Fibre Channel (FC) Switch Fabric-3 (FC-SW-3) [14165-132] New Work Item Proposal T11/04-234v1 sent to SC25, will need FCD text On hold because LoA IP letters need to be addressed to IEC.
8. Project 1.25.13.13.26 - Fibre Channel (FC) Virtual Interface Architecture Mapping (FC-VI) [14165-331] FCD approved SC25 N966.. FDIS approved with comments. Need response to comments and FDIS text. BUT do we still want this project, if not T11 must approve a motion (draft motion supplied below) to request SC25 to remove project from JTC1/SC25 Programme of Work.
9. Project 1.25.13.13.27 - Fibre Channel 10 Gigabit (10GFC) [14165-116] US voted to approve FDIS
10. Project 1.25.13.13.nn - Technical Report for Fibre Channel - Methodologies for Jitter and Signal Quality Specification, - MJSQ [14165-*nnn*] NWIP submitted)25n926a, US voted YES, PDAM text in ANSI style, conversion to ISO style in process
11. Project 1.25.13.13.nn - Fibre Channel (FC) Arbitrated Loop-2 1st Corrigendum to ISO/IEC 14165-122: (FC-AL-2) NWIP 14165-122, T11 Need motion to approve SC25 N1015 - 1st Corrigendum to ISO/IEC 14165-122: Information technology - Fibre channel - Part 122: Arbitrated Loop-2 (FC-AL-2).
12. Project 1.25.13.17 Responsive Link, NWIP JTC1N7436 submitted by Japan, approved.
13. Project 1.25.13.nn SMI-S from SNIA/SC25 TAG. Approved by SC25 TAG, sent to ANSI. The NWIP sent to SC25 and SNIA-SMI title was changed to "Information Technology - Storage Management"

**14.2 ISO Motions and other actions**

**14.2.1 Motion to Request JTC1/SC25 to remove Project 1.25.13.13.26 - Fibre Channel (FC) Virtual Interface Architecture Mapping (FC-VI) [14165-331] from their Program of Work.**

MOTION: T11 requests the SC25 TAG to inform JTC1/SC25 Secretariat that Project 1.25.13.13.26 - Fibre Channel (FC) Virtual Interface Architecture Mapping (FC-VI) [14165-331] should not be on the SC25 Program of Work.

It was noted by Neil Wanamaker that the Virtual Interface Architecture specifications are no longer available; if suitable references cannot be provided, cessation of ISO standardization and withdrawal of FC-VI would appear appropriate. The foregoing motion will be brought forward at the next meeting unless such references are made available.

**14.2.2 Motion to recommend that SC25 TAG vote to Approve SC25 N1015 - 1st Corrigendum to ISO/IEC 14165-122: Information technology - Fibre channel - Part 122: Arbitrated Loop-2 (FC-AL-2).**

It was moved by Claudio DeSanti and seconded by Bob Snively that T11 requests the SC25 TAG to Approve SC25 N1015 - 1st Corrigendum to ISO/IEC 14165-122: Information technology - Fibre channel - Part 122: Arbitrated Loop-2 (FC-AL-2). The document was distributed as T11/04-849v0.

The result of the rollcall vote (U.S. Domiciled organizations only) was:

Agere	P..... Adam Healey	y
Agere	A..... Stephan Bedrosian	
Agilent	P..... Roy Elsbernd	y
Agilent	A..... Narayan Ayalasomayajula	
AMCC	P..... Haluk Aytac	

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AMCC	A.....	Scott Denton	y
AMPHENOL	P.....	Michael Wingard	
AMPHENOL	A.....	Ron Kleckowski	y
Ancot	P.....	Jan V. Dedek	nv
Ancot	A.....	Bart Raudebaugh	
Broadcom	P.....	Ali Ghiasi	y
Broadcom	A.....	Murali Rajagopal	
Brocade Comms.	P.....	Robert Snively	y
Brocade Comms.	A.....	Steven L. Wilson	
Ciena	P.....	Chris Janz	
Ciena	A.....	Sashi Thiagarajan	y
Cisco	P.....	Silvano Gai	
Cisco	A.....	Claudio DeSanti	y
CNT	P.....	David Peterson	
CNT	A.....	Harry V. Paul	y
Corning	P.....	Doug Coleman	y
Corning	A.....	Steve E. Swanson	
Crossroads Sys.	P.....	John Tyndall	nv
Crossroads Sys.	A.....	Dexter Anderson	
Crossroads Sys.	A#.....	David Douglas	
Dot Hill	P.....	Elizabeth Rodriguez	y
EMC	P.....	Gary S. Robinson	nv
EMC	A.....	Gregory McSorley	
Emulex	P.....	Bob Nixon	y
Emulex	A.....	Ken Hirata	
ENDL	P.....	Ralph Weber	y
ENDL	A.....	Dal Allan	
eSilicon Corporation	P.....	Frank Barber	nv
eSilicon Corporation	A.....	Rakesh Chadha	
FCI	P.....	Kevin Oursler	y
FCI	A.....	David Sideck	
Finisar	P.....	Neil Wanamaker	y
FSI	P.....	Gary Stephens	y
Fujikura	P.....	Nabil Osman	nv
Fujikura	A.....	Hari Naidu	
Fujitsu	P.....	Mike Fitzpatrick	nv
General Dynamics	P.....	Tim Luthens	nv
General Dynamics	A.....	Kent Lindell	
Hitachi America	P.....	Hidehisa Shitomi	y
Hitachi America	A.....	Nobuyuki Osaki	
Hitachi Data Sys	P.....	Eric Hibbard	y
Hitachi GST	P.....	Dan Colegrove	y
Hitachi GST	A.....	Werner Glinka	
Hewlett Packard	P.....	Bill Ham	y
Hewlett Packard	A.....	Vinod Bhat	
IBM	P.....	Ken Hallam	
IBM	A.....	Robert Dugan	y
Infineon	P.....	Richard Johnson	y
Infineon	A.....	Vasanta Rao	
Intel	P.....	Schelto van Doorn	y
Intel	A.....	Bill Bissonette	
JDS	P.....	Eric Borisch	y

JDS	A.....	Effie Favreau	
LSI Logic	P.....	Curtis Ridgeway	
LSI Logic	A.....	Michael Jenkins	
LSI Logic	A#.....	John Lohmeyer	y
Lucent	P.....	Richard Di Pasquale	y
McData	P.....	Scott Kipp	y
McData	A.....	Larry Hofer	
Molex	P.....	Jay Neer	y
Nortel	P.....	Graham Copley	ne
Northrop Grumman	P.....	James Nelson	nv
PacketLight	P.....	Navot Oren	ne
PacketLight	A.....	Koby Reshef	
PhyWorks	P.....	David Lewis	ne
PhyWorks	A.....	Chris Bryson	
PMC-Sierra	P.....	Yuriy Greshishchev	nv
PMC-Sierra	A.....	Richard Cam	
PrecisionFC	P.....	Gary Warden	y
PrecisionFC	A.....	Jing Kwok	
QLogic	P.....	Craig Carlson	y
QLogic	A.....	Skip Jones	
QLogic	A#.....	Ed McGlaughlin	
Seagate	P.....	James Coomes	y
Seagate	A.....	Allen Kramer	
Sierra-Logic	P.....	William R. Martin	y
Sierra-Logic	A.....	Matt Wakeley	
Smiths Aerospace	P.....	John Schroeder	nv
Smiths Aerospace	A.....	Todd Pepper	
Solution Tech.	P.....	Robert Kembel	nv
Solution Tech.	A.....	David Deming	
ST	P.....	Gianfranco Scherini	y
ST	A.....	Roland Marbot	
StorageTek	P.....	Matt Gaffney	y
StorageTek	A.....	Joe Gruba	
Sun Microsystems	P.....	Vit Novak	y
Sun Microsystems	A.....	Steve Sletten	
Tartan	P.....	Rich Taborek	y
Tartan	A.....	Arline Taborek	
TI	P.....	Rajeev Jain	
TI	A.....	Stephen Hubbins	a
TrueFocus	P.....	Horst Truedtedt	y
TrueFocus	A.....	Jeanne Truedtedt	
Tyco	P.....	Andrew Nowak	
Tyco	A.....	Michael Fogg	y
Veritas	P.....	Roger Cummings	y
Veritas	A.....	Roger Reich	
Xyratex	P.....	Paul Levin	
Xyratex	A.....	Rich Ramos	ne

The motion carried 39 For, 0 Opposed, with 1 Abstaining and 11 Not Voting. This meets the two-thirds rule.

**14.2.3 Motion to Disapprove with Comment the FDIS FC-100-TP of JTC1/SC25 and Recommend JTC1 TAG Vote NO with Comment.**

## T11 Minutes, December 9, 2004

It was moved by Claudio DeSanti and seconded by Bob Snively that T11 has reviewed FDIS Project 1.25.13.13.21 - Fibre Channel (FC) 100 Twisted Pair (FC-100-TP) [14165-114], SC25N1013A and recommends the JTC1 TAG vote NO with comments. The FC-100-TP document was distributed as T11/04-819v0, the explanatory report as T11/04-820v0, and the proposed comment as T11/04-822v0.

COMMENT: (The USA requests that the FDIS 14165-114 be changed to remove all references to FibreChannel)

The result of the rollcall vote (U.S. Domiciled Organizations only) was:

Agere	P .....	Adam Healey	y
Agere	A .....	Stephan Bedrosian	
Agilent	P .....	Roy Elsbernd	y
Agilent	A .....	Narayan Ayalasomayajula	
AMCC	P .....	Haluk Aytac	
AMCC	A .....	Scott Denton	y
AMPHENOL	P .....	Michael Wingard	
AMPHENOL	A .....	Ron Kleckowski	y
Ancot	P .....	Jan V. Dedek	nv
Ancot	A .....	Bart Raudebaugh	
Broadcom	P .....	Ali Ghiasi	y
Broadcom	A .....	Murali Rajagopal	
Brocade Comms.	P .....	Robert Snively	y
Brocade Comms.	A .....	Steven L. Wilson	
Ciena	P .....	Chris Janz	
Ciena	A .....	Sashi Thiagarajan	y
Cisco	P .....	Silvano Gai	
Cisco	A .....	Claudio DeSanti	y
CNT	P .....	David Peterson	
CNT	A .....	Harry V. Paul	y
Corning	P .....	Doug Coleman	y
Corning	A .....	Steve E. Swanson	
Crossroads Sys.	P .....	John Tyndall	nv
Crossroads Sys.	A .....	Dexter Anderson	
Crossroads Sys.	A# .....	David Douglas	
Dot Hill	P .....	Elizabeth Rodriguez	y
EMC	P .....	Gary S. Robinson	nv
EMC	A .....	Gregory McSorley	
Emulex	P .....	Bob Nixon	y
Emulex	A .....	Ken Hirata	
ENDL	P .....	Ralph Weber	y
ENDL	A .....	Dal Allan	
eSilicon Corporation	P .....	Frank Barber	nv
eSilicon Corporation	A .....	Rakesh Chadha	
FCI	P .....	Kevin Oursler	y
FCI	A .....	David Sideck	
Finisar	P .....	Neil Wanamaker	y
FSI	P .....	Gary Stephens	y
Fujikura	P .....	Nabil Osman	nv
Fujikura	A .....	Hari Naidu	
Fujitsu	P .....	Mike Fitzpatrick	nv
General Dynamics	P .....	Tim Luthens	nv
General Dynamics	A .....	Kent Lindell	

Hitachi America	P.....	Hidehisa Shitomi	y
Hitachi America	A.....	Nobuyuki Osaki	
Hitachi Data Sys	P.....	Eric Hibbard	y
Hitachi GST	P.....	Dan Colegrove	y
Hitachi GST	A.....	Werner Glinka	
Hewlett Packard	P.....	Bill Ham	y
Hewlett Packard	A.....	Vinod Bhat	
IBM	P.....	Ken Hallam	
IBM	A.....	Robert Dugan	y
Infineon	P.....	Richard Johnson	y
Infineon	A.....	Vasanta Rao	
Intel	P.....	Schelto van Doorn	y
Intel	A.....	Bill Bissonette	
JDS	P.....	Eric Borisch	y
JDS	A.....	Effie Favreau	
LSI Logic	P.....	Curtis Ridgeway	
LSI Logic	A.....	Michael Jenkins	
LSI Logic	A#.....	John Lohmeyer	y
Lucent	P.....	Richard Di Pasquale	y
McData	P.....	Scott Kipp	y
McData	A.....	Larry Hofer	
Molex	P.....	Jay Neer	y
Nortel	P.....	Graham Copley	ne
Northrop Grumman	P.....	James Nelson	nv
PacketLight	P.....	Navot Oren	ne
PacketLight	A.....	Koby Reshef	
PhyWorks	P.....	David Lewis	ne
PhyWorks	A.....	Chris Bryson	
PMC-Sierra	P.....	Yuriy Greshishchev	nv
PMC-Sierra	A.....	Richard Cam	
PrecisionFC	P.....	Gary Warden	y
PrecisionFC	A.....	Jing Kwok	
QLogic	P.....	Craig Carlson	y
QLogic	A.....	Skip Jones	
QLogic	A#.....	Ed McGlaughlin	
Seagate	P.....	James Coomes	y
Seagate	A.....	Allen Kramer	
Sierra-Logic	P.....	William R. Martin	y
Sierra-Logic	A.....	Matt Wakeley	
Smiths Aerospace	P.....	John Schroeder	nv
Smiths Aerospace	A.....	Todd Pepper	
Solution Tech.	P.....	Robert Kembel	nv
Solution Tech.	A.....	David Deming	
ST	P.....	Gianfranco Scherini	y
ST	A.....	Roland Marbot	
StorageTek	P.....	Matt Gaffney	y
StorageTek	A.....	Joe Gruba	
Sun Microsystems	P.....	Vit Novak	y
Sun Microsystems	A.....	Steve Sletten	
Tartan	P.....	Rich Taborek	y
Tartan	A.....	Arline Taborek	
TI	P.....	Rajeev Jain	

TI	A..... Stephen Hubbins	y
TrueFocus	P..... Horst Truedstedt	y
TrueFocus	A..... Jeanne Truedstedt	
Tyco	P..... Andrew Nowak	
Tyco	A..... Michael Fogg	y
Veritas	P..... Roger Cummings	y
Veritas	A..... Roger Reich	
Xyratex	P..... Paul Levin	
Xyratex	A..... Rich Ramos	ne

The motion carried 40 For, 0 Opposed, with 0 Abstaining and 11 Not Voting. This meets the two-thirds rule.

#### 14.2.4 Comments on FC-FS

It was moved by Ralph Weber and seconded by Neil Wanamaker that T11 has reviewed the comments received in response to the FCD ballot on Project 1.25.13.13.22 - Fibre Channel - Framing and Signaling Interface (FC-FS) [14165-251], SC 25 N 995 and recommends that all comments be accepted.

The motion carried unanimously.

#### 14.3 Other Items

None.

### 15 T11 New Business & New Technical Items

#### 15.1 Other New Business

None was offered.

#### 16 Call for Patents

In accordance with INCITS patent policies and guidelines, the chair made a call for patents that related to the standards being developed by this task group. Those companies wishing to file a patent declaration should send it to the chair of TC T11, with copies to Lynn Barra at INCITS (lbarra@itic.org).

The INCITS patent policies specified in clause 8 of RD-1, "Policies and Guidelines" (available at [www.incits.org/sd9\\_rev1c.htm](http://www.incits.org/sd9_rev1c.htm)) are modeled on the ANSI patent policies.

A convenient overview of the ANSI patent policy is available on the ANSI web-site at [public.ansi.org/ansionline/Documents/News and Publications/Speeches/PatentsAIPLA10-03.pdf](http://public.ansi.org/ansionline/Documents/News%20and%20Publications/Speeches/PatentsAIPLA10-03.pdf).

A guideline for implementing the patent policy is available on the ANSI web-site at [public.ansi.org/ansionline/Documents/Standards%20Activities/American%20National%20Standards/Procedures,%20Guides,%20and%20Forms/PATPOL.DOC](http://public.ansi.org/ansionline/Documents/Standards%20Activities/American%20National%20Standards/Procedures,%20Guides,%20and%20Forms/PATPOL.DOC)

#### RESPONSE TO CALL FOR PATENTS

Agilent Technologies has notified the American National Standards Institute that it holds patents applicable to 10GFC, and that they will comply with the ANSI patent policy.

The contact is:

Agilent Technologies, Inc.  
Legal Department, Patent Out-Licensing Section  
3000 Hanover street  
Palo Alto, CA 94304

Brocade Communications Systems, Inc. has notified the American National Standards Institute that it holds patents, and will comply with the ANSI patent policy. For the patent held for FC-SW-3, see T11/04-607v0.

The contact is:

Mark Cochran, Vice President and General Counsel  
1745 Technology Drive  
San Jose, CA 95110  
(408) 392-5225  
mcochran@brocade.com

Cisco Systems, Inc. has notified INCITS that they have acquired Andiamo Systems, Inc., including pending patents that may relate to FC-SP, FC-FS, FC-FS-2, FC-LS, FC-GS-4, FC-SW-3, FC-BB-2, and FAIS. Cisco Systems, Inc. has indicated that it will comply with the ANSI Patent Policy. See T11/03-805v0.

The contact is:

Robert Barr  
VP, Intellectual Property  
Cisco Systems, Inc.  
170 West Tasman Drive  
San Jose, CA 95134-1706  
408 562 4000  
Fax: 408 526 4100

IBM Corp. has declared that it has patents, which apply to the practice of FC and SBCON, and that they will comply with the ANSI patent policy. See T11/03-651v2.

The contact is:

IBM Corp.  
Director of Licensing  
North Castle Dr.  
Armonk, NY. 10504-1785

Lucent Technologies has notified the American National Standards Institute that if it holds patents applicable to SRP, it will comply with the ANSI patent policy.

The contact is:

Bill Carter  
Intellectual Property Manager  
Lucent Technologies  
908-582-2156  
carterwr@lucent.com

McDATA Corporation has notified the American National Standards Institute that it holds patents that are ap-

plicable to FC-BB, FC-PH, FC-FS, FC-LS, FC-SW, FC-SP, and FC-GS, and that they will comply with the ANSI patent policy. The patents include those previously disclosed by Nishan Systems, Inc. See T11/99-114v0, T11/02-356v0, T11/02-377v0, T11/04-239v0.

The contact is:

Kathleen A. McMann

Phone: (303)460-3277, Fax (303)460-3235,

Email: kathy.mcmann@mcddata.com

Nortel Networks has notified INCITS that it has patents which may apply to FC-BB-3. Nortel Networks has indicated that it will comply with the ANSI Patent Policy. See T11/04-741v0.

The contact is:

Richard Weiss

Nortel Networks, M/S 99114B20

2221 Lakeside Blvd

Richardson, Texas 75082

Tyco Electronics Corporation has notified INCITS that they have patents which may apply to standards being developed in T11. It has also indicated that it has patents associated with the T11.2 HSSDC-2 connector. They have indicated that they will comply with the ANSI Patent Policy.

The contact is:

Driscoll A. Nina

Director of Intellectual Property

Tyco Electronics Corporation

c/o Tyco Electronics Logistics AG

Amperstrasse 3

9323 Steinach, Switzerland

41-71-447-0980

Fax: 41-71-447-0495

Wavecrest Corporation has notified INCITS that they have patents which apply to several of the test methods in the FC-MJSQ standard. They have indicated that they will comply with the ANSI Patent Policy. See T11/04-034v0.

The contact is:

John Patrin

Director of Product Marketing

7626 Golden Triangle Dr.

Eden Prairie, MN 55344

952 831 0030

Fax: 952 831 4474

XFP MSA has notified INCITS that they agree to, as a base for the standardization of interfaces compatible with the XFP Specification, license the copyright of the XFP Specification to T11 with the right to reproduce and prepare derivatives for the developing T11 proposals and standards. See T11/03-522v0.

Robert Snively, Chair, XFP group chair  
Brocade Communications Systems, Inc.  
1745 Technology Drive  
San Jose, CA 95110

T11 is in the process of recovering other patent-related documents published before its electronic data-base was established.

The Chair noted that organizations who have patents relevant to FC-SW-3 ISO should refer to T11/04-664v1 to indicate their position on such patents.

## 17 Anti-Trust Guidelines

The Chair noted that the INCITS Antitrust Guidelines (see <http://www.incits.org/inatrust.htm>) applied to this technical committee meeting, and that it was the responsibility of all attenders, and not just the Officers, to ensure that the Guidelines are followed, and to terminate discussions if they are not.

## 18 Liaison Reports

### 18.1 INCITS Report, activities other than T11 Status

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

#### *INCITS activities*

- *INCITS Activities*

- *Officer's Symposium and all TC annual reports will be given July 11-12, 2005.*

- *INCITS E22 being chartered to do a project on Authentication and Chain of Custody for Valued Items. Note some overlaps with other industry activities.*

- *INCITS Project: 54 - L*

*Title: Small Computer to Peripheral Bus Interface, Data Transfer Between Computer and Peripheral.*

*This is an obsolete liaison project with ISO and has been deleted from our INCITS list of projects.*

- *JTC-1 Activities*

- *Home wiring with Optical Cable*

- *Certified by capability, not fiber*

- *Berlin Resolution 22 – Patent Declarations in Standards*

- *JTC 1 notes that the ISO/IEC Directives require that full contact information of companies, organizations, people etc claiming patents in technology specified in a standard must be included in the introduction of the standard. JTC 1 reminds its Project Editors of this requirement and asks the ITTF to ensure that this information is properly included prior to the publication of the standard.*

Bob noted that INCITS had formed a new TC, E22, on Item Authentication.

### 18.2 TC T10 (T11/04-754v0)

John Lohmeyer of LSI Logic, Chair of T10, made the following report:

T10 met last in Austin, TX on Thursday November 11, 2004 with 48 people present. Membership is at 40 voting organizations.

T10 forwarded SBC-2 rev 16 and ADT rev 14 to first public review.

While MMC-4 rev 3d was at first public review an editing error was discovered. Correcting the error would result in a substantive change. T10 voted to make this substantive change and forwarded MMC-4 rev 5 to INCITS for second public review.

T10 approved project proposals for ADC-2, ADT-2, and SDI. SDI (Serial Attached SCSI Driver Interface) is a management interface that was previously called CSMI. T11.5 had opted for giving T10 the right of first refusal on this project. A close liaison is planned with T11 and especially T11.5.

T10 is working on resolving approximately 1600 letter ballot comments on SPC-3.

A call for an SRP-2 Technical Editor has been issued. If there is no response by the January T10 meeting, John Lohmeyer plans to introduce a motion to close this project.

Hitachi GST will host the next plenary meeting of T10 January 20, 2005 in Las Vegas, NV at the Tropicana Hotel (800-634-4000). The meeting will begin at 9:00 a.m. on Thursday. Several ad hoc meetings are also scheduled earlier that week and as follows:

Meeting	Date	Location / Contact
-----	-----	-----
SAS PHY Calls	Weekly	TBA via T10 reflector / Cox
SAT WG Call	Dec 2 9:00 PDT	Notice (TBA) / Bob Sheffield
SSC-3 WG Call	Dec 2 9:30 CST	Dave Peterson
SAT WG	Dec 16-17, 2004	With T13 in Las Vegas / Dan Colegrove

The T10 web, ftp, and reflector sites are:

- <http://www.t10.org/>                      mirror site: <http://www.t11.org/t10/>
- <ftp://ftp.t10.org/>                      reflector: [majordomo@t10.org](mailto:majordomo@t10.org)
- T10 Minutes: [http://www.t10.org/t10\\_mins.htm](http://www.t10.org/t10_mins.htm)

**18.3 FCIA**

Werner Glinka of Hitachi GST, FCIA Chair, made a presentation of 04-856v0.

**18.4 IEEE**

Schelto van Doorn made a presentation of 04-857v0.

**18.5 IETF**

Elizabeth Rodriguez of Dot Hill made a presentation of 04-855v1.

**18.6 Trusted Computing Group**

There was no presentation.

**18.7 Other Liaison Reports**

None

**19 Administrative Matters**

**19.1 Officer appointments**

*T11 Chair: Robert Snively*  
*T11 International Representative: Gary Robinson*  
*T11 Secretary: Neil Wanamaker*  
*T11 Vice-Chair: Claudio DeSanti*  
*T11.2 Chair: Schelto van Doorn*  
*T11.2 Secretary: Bill Ham*  
*T11.2 Vice-Chair: Tom Palkert*  
*T11.3 Chair: Craig Carlson*  
*T11.3 Secretary: William Martin*  
*T11.3 Vice-Chair: George Penokie*  
*T11.5 Chair: Roger Cummings*  
*T11.5 Secretary: Parag Bhide*  
*T11.5 Vice-Chair: Robert Pulley*

**19.1.1 Appointment of T11 Chair**

Bob Snively noted that he had been reappointed T11 Chair, and would require retraining.

**19.2 FTP AND WEB SITES FOR T11**

**19.2.1 Wireless Information**

No report was made.

**19.2.2 Website Status Information**

Roger Cummings of Veritas made the following presentation (T11/04-840v0):

*Status:*

- No major issues –fingers crossed –since the last meeting*
  - Admin access is still somewhat intermittent, but normal FTP access seems to have been reliable*
- Scheduled downtime on 11/29 was necessary to make major fixes*
  - Membership and People DBs were open again by 4pm*

*Fixed Problems*

- Four Issues that caused membership and People DBs to get out of sync*
  - Expect that this has fixed the jeopardy calculation as well*
  - will test after this meeting*
- Fixed an issue with Publication numbers being displayed for completed projects*
  - Had created this problem with the previous changes for new project types*

*Known Problems Still Existing:*

- “Clearing fields” problem*

Changes

- Top page edited to:

- Removed reference to T11.1

- Update links @ top of page

- Added links that can turn the left-hand (blue background) Navigation Frame off and On

- As per T10 web site

New functionality:

- New reminder agent for 30 day & two week warnings

- Extended “mail me my personal password” agent to inform editors of the ID & Password for source upload

- Added new buttons at top of “Docs” view to direct number draft std/TR, agenda, minutes as well as documents

- Existing links on the document form still work

New functionality

- Added a new view into Document Register database for all patent-related documents

- Will also add some static text to this page to link to ANSI patent documents in near future

New Functionality

- Major changes to way agendas are handled

- New link to Future (& current day’s) Agendas in Navigation frame

- Link to Agenda from each Meeting in lists in Meeting Database

- Meeting Map automatically converted to HTML and links to meeting agenda provided

- NB -this still needs some additional work

Electronic Attendance

- Worked very well in October in all four plenary meetings

- All of the after-meeting processing worked well also

- Made very minor changes for clarity since

- Changed label on one button

- Changed a pulldown list to a radio button

- Changed ways that meeting passwords are linked to agendas

Electronic Attendance

- Have tested support for a local-only WLAN (i.e. with no Internet access)

- Working on an offline scheme as well

- Public “attendance kiosk” will continue to be made available at all meetings for those who do not bring laptops, or cannot connect

- *Designated help person available at all meetings*
  - *T11.5 plenary –Bob Snively*
  - *Other meetings –Roger Cummings*

It was moved by Roger Cummings and seconded by Bob Snively that “The Electronic Attendance scheme be adopted as the official method of determining attendance at all Plenary meetings of TC T11 and its TGs from February 2005 onwards”. There was discussion of alternatives in case of failures and of mechanisms for recording attendance at ad hocs. The motion carried unanimously.

*Web Site Help:*

- *New top level Help page at:*
  - *http://www.t11.org/help.html*
  - *Also “Help” link in the navigation frame*
    - *Contains links to tutorial, user guide and the OCLC article about the web site*

*Addresses for Reporting Problems:*

- *Server problems (web or ftp sites down etc.)*
  - *support@psrsoftware.com*
- *Mail Reflector problems*
  - *dap@cnt.com*
- *Web site design problems*
  - *t11webmaster@psrsoftware.com*
- *Web site content problems (including membership problems, people and document register listings)*
  - *the officers of the relevant TC or TG*

**19.3 Reflectors**

No report.

**19.4 Other Matters**

**19.4.1 T11 Vendor ID**

T11 now has an assigned T10 vendor ID of “T11”

**20 Future meeting schedule**

**20.1 December Meeting Announcement**

The February meeting week will be held the week of January 31 through February 4, 2005, in Dana Point, CA, hosted by QLogic.

For hotel information, see the “Meetings” tab at [www.t11.org](http://www.t11.org), then “meeting announcement”.

**20.2 December Meeting Map**

T11/04-862v0

=====

T11 PLENARY WEEK - JAN 31 - FEB-4, 2005  
Dana Point, CA

Version 12/9/2004

Monday

```

01/31      8   9   10  11  12  1   2   3   4   5   6   7   8   9
+-----+-----+-----+-----+-----+
30/30/30/20 | IP |FC-FS-2\lun\ FC-LS \   FC-MI-2   |
+-----+-----+-----+-----+
35          |//////////|          FCSM-2   |////////|
+-----+-----+-----+-----+
50          |          |          |          |          |          |
+-----+-----+-----+-----+

```

Tuesday

```

02/1      8   9   10  11  12  1   2   3   4   5   6   7   8   9
+-----+-----+-----+-----+
25/25/25   |  FC-IFR  \lun\  FC-SW-4  \FC-GS-5\MI2|
+-----+-----+-----+-----+
15         |  FC-AE-2  |lun|          FC-AE-2   |///|
+-----+-----+-----+-----+
40/40/40/40 |  FC-MSQS  |lunch|MSQS |PI |   **SFF XCVR**  |
|          |          |          |ISO|          |
+-----+-----+-----+-----+
12         |          *** FCIA BOD ***          |
+-----+-----+-----+-----+
50         |          |          |          |          |          |
+-----+-----+-----+-----+

```

Wednesday

```

02/2      8   9   10  11  12  1   2   3   4   5   6   7   8   9
+-----+-----+-----+-----+
30/30/25   |          FC-SP   |lun|DA2|  FC-BB-3  |
+-----+-----+-----+-----+
45/45     | T11.2 EL WG |lunch| T11.2 Opt WG |
+-----+-----+-----+-----+
30/20     |  11.5 Mgmt  |lun|          FAIS   |
+-----+-----+-----+-----+
15/30     |          FC-AE-2  |lun|AE2|  SM-HBA   |
+-----+-----+-----+-----+
50         |  ** FCIA Members **  |
+-----+-----+-----+-----+
100        |          |          |          |          |          |
+-----+-----+-----+-----+

```

Thursday - PLENARY

```

02/3      8   9   10  11  12  1   2   3   4   5   6   7   8   9
+-----+-----+
30         |FAIS \FC-SP|
+-----+-----+
65/15/50/80/80 |  TG2  |///|lun|TG5|TG3| TC T11 |
|Plenary|///| |Pln|Pln| PLENARY |
+-----+-----+

```

Friday

```

02/4      8   9   10  11  12  1   2   3   4   5   6   7   8   9
+-----+
|T11 Style Guide|
+-----+

```

\* = NOT A T11 MEETING  
 \ = if meeting ends early, next meeting starts immediately

Meeting map approved by acclamation.

**20.3 Authorization of Ad Hoc Meetings**

Authorization of Ad Hoc meetings is delegated to the appropriate TG, if any. There were no exceptions.

**20.4 Request for Hosts - Future meeting Schedule**

=====  
*2005 Through 2006 T11 Meeting Schedules*

<i>2005 Dates</i>	<i>Proposed Locations</i>	<i>Host</i>
-----	-----	----
<i>JANUARY 31-FEBRUARY 4</i>	<i>Dana Point, CA</i>	<i>QLogic</i>
<i>APRIL 4-8</i>	<i>La Jolla</i>	<i>Brocade</i>
<i>JUNE 6-10</i>	<i>St Paul, MN</i>	<i>CNT</i>
<i>AUGUST 8-12</i>	<i>Ottawa, ON</i>	<i>Nortel</i>
<i>OCTOBER 3-7</i>	<i>San Francisco, CA</i>	<i>Solution Technology</i>
<i>DECEMBER 5-9</i>	<i>Garden Grove, CA</i>	<i>Northrop-Grumman</i>
<i>2006 Dates</i>	<i>Proposed Locations</i>	<i>Host</i>
-----	-----	----
<i>February 6-10</i>	<i>Dana Point, CA</i>	<i>QLogic</i>
<i>April 3-7</i>	<i>Santa Fe, NM</i>	<i>Brocade</i>
<i>June 5-9</i>	<i>Seattle, SA</i>	<i>Emulex</i>
<i>August 7-11</i>	<i>Winter Park, CO</i>	<i>McData</i>
<i>October 2-6</i>	<i>Oklahoma City, OK</i>	<i>Fujitsu</i>
<i>December 4-8</i>		

*Note that August 2006 meeting will probably be moved to a lower altitude venue.*

*Discussion of moving June, 2006 meeting to Anchorage. Roger Cummings indicated his disagreement. This to be publicized on reflector.*

**20.5 Guidelines for Hosting**

This report has been posted to the website as T11/04-244v0. The room-night history was distributed with the meeting documents. The URL for the page is <http://www.t11.org/t11/meet.nsf/host>

**21 Review of action items**

- 03-001 TG Chairs to update Project Status Sheet.
- 03-002 All editors, when posting drafts, upload zip of source to hidden directory
- 04-008 Chair to ensure that the withdrawn standards that are to be made available are handled correctly by INCITS.
- 04-009 Roger Cummings to investigate making the projects related to withdrawn standards accessible on the website.
- 04-076 IR to get draft of MJSQ-ISO to ISO editor.
- 04-079 Chair to forward MJSQ Corrections to INCITS

04-080 Chair to forward the 10GFC Amendment Project Proposal to INCITS

04-081 Chair to forward MJS withdrawal to INCITS

04-082 Chair to forward FC-IFR Project Proposal to INCITS

04-083 T11 Webmaster to create project for VF MIB project

04-084 IR to convey the acceptance of the comments on Project 1.25.13.13.22 - Fibre Channel - Framing and Signaling Interface (FC-FS) [14165-251], SC 25 N 995, to JTC1/SC25

04-085 IR to convey approval of SC25 N1015 - 1st Corrigendum to ISO/IEC 14165-122: Information technology - Fibre channel - Part 122: Arbitrated Loop-2 (FC-AL-2) to JTC1/SC25

04-086 IR to convey vote to Disapprove with Comment the FDIS FC-100-TP of JTC1/SC25 and Recommend JTC1 TAG Vote NO.

04-087 Chair to circulate note on proposed withdrawal of FC-VI-ISO

04-088 Bob Nixon to post announcement of discussion and vote on holding meeting in Anchorage in June 2006 on T11 reflectors.

04-089 Chair to prepare customary Liaison reports and INCITS status reports.

## **22 Adjournment**

It was moved by Jeanne Truedted and seconded by Ali Ghiasi to adjourn. The motion passed unanimously, and the meeting was adjourned at 5:24 PST.

## \*\*\* December, 2004 T11 Plenary Attendance \*\*\*

AGERE	Adam Healey
AGILENT	Roy Elsbernd
AMCC	Scott Denton
Amphenol	Ron Kleckowski
Broadcom	Ali Ghiasi
Brocade	Robert Snively
CIENA	Sashi Thiagarajan
Cisco	Claudio DeSanti
CNT	Harry V. Paul
Corning	Doug Coleman
Corrigent	Moran Roth
Dot Hill	Elizabeth G. Rodriguez
EMC	David Black
Emulex	Bob Nixon
ENDL	Ralph Weber
FCI	Kevin Oursler
Finisar	Neil Wanamaker
FSI	Gary Stephens
Fujitsu	Mike Fitzpatrick
General Dynamics	Tim Luthens
Hitachi America	Hidehisa Shitomi
Hitachi DS	Eric Hibbard
Hitachi Global Storage	Werner Glinka
Hitachi Global Storage	Dan Colegrove
HP	Bill Ham
HP	Vinod Bhat
IBM	Robert Dugan
INCITS	Patrick Morris
Infineon	Richard Johnson
Intel	Ramamurthy Krithivas
Intel	Schelto Van Doorn
JDSU	Eric Borisch
LSI Logic	John Lohmeyer
Lucent	Richard DiPasquale
McData	Scott Kipp
Molex	Jay Neer
NGC	James Nelson
Nortel	Graham Copley
PacketLight	Koby Reshef
Phyworks	Dave Lewis
PrecisionFC	Gary Warden
QLogic	Craig Carlson
Seagate	James Coomes
Sierra Logic	William R. Martin

STMicroelectronics	Gianfranco Scherini
Storagetek	Matt Gaffney
Sun Microsystems	Steve Sletten
Sun Microsystems	Vit Novak
Tartan	Rich Taborek
Tektronix	Raj Savara
TI	Stephen Hubbins
True Focus	Jeanne Truededt
TrueFocus	Horst Truededt
Tyco Electronics	Michael Fogg
Veritas	Roger Cummings
Xilinx	Tom Palkert
Xyratex	Rich Ramos

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