



InterNational Committee for Information Technology Standards (INCITS)
Secretariat: Information Technology Industry Council (ITI)
700 K Street NW, Suite 600, Washington, DC 20001
www.INCITS.org



T11-2023-00405-v001

**Minutes Fibre Channel Protocol
(T11.3) Task Group plenary meeting #155
2023 December 07 – 10:30AM to 11:30AM EST
Deerfield Beach, FL +
Virtual Meeting**

1 Opening remarks and introductions

The Chair convened plenary meeting #155 of the Fibre Channel Protocol (T11.3) Task Group on 2023 December 07 at 10:30 EST. He introduced himself as Roger Hathorn (IBM), and the group thanked Amphenol for the hotel arrangements. The role of the Vice-Chair is vacant at the moment. Patty Driever (IBM) introduced herself as secretary. Members present and on Zoom introduced themselves.

2 Approval of the Agenda

An electronic version of the agenda, [T11-2023-00376-v000](#), and supporting documents were made available among the documents for this meeting. The agenda was in HTML format with links to the appropriate supporting documents. The chair presented the agenda and made a call for any new agenda items. No new items were requested.

David Peterson (Broadcom) moved and DJ Brown (Dell) seconded that [T11-2023-00376-v001](#) be approved as posted as the agenda for this meeting. The motion passed unanimously.

3 Administrative Matters

3.1 T11.3 Admin Is Trivia

The Chair, Roger Hathorn (IBM), stated that T11.3 administrative information is available among the documents for this meeting: Starting with the web page <https://standards.incits.org/apps/org/workgroup/t11.3/> links lead to contact information for T11.3 officers, membership rules, project information, procedures and operating rules, patent rules, and internet resources. The chair recommended that members

familiarize with these rules so the business of the Task Group may be conducted expeditiously. Members were advised to see any of the officers if they require additional assistance.

The Chair also noted that we are inside a 30-day review period for revised INCITS policies and procedures, so people should review them and supply any comments back to the Chair for forwarding to INCITS.

3.2 Document Distribution

The Chair instructed those present how to access meeting documents via the INCITS T11 Web Site Center page <https://standards.incits.org/apps/org/workgroup/t11/documents.php>. The chair uploaded a zip file document containing all documents reviewed at this meeting: [T11-2023-00431-v000](#).

3.3 Other matters of grave concern

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

4 Code of Conduct

The Vice-Chair reminded everyone that we are operating under the INCITS Code of Conduct (found at <https://www.incits.org/standards-information/policies>).

5 Antitrust Policies

The Vice-Chair noted that the INCITS Antitrust Guidelines applied to this task group meeting. The chair further noted that it was the responsibility of all attendees, and not just the officers, to ensure that the Guidelines are followed, and to terminate discussions if they are not. The INCITS Antitrust Guidelines are available on the INCITS web site (<http://www.incits.org/standards-information/legal-info>).

6 Patents

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

7 Attendance and Membership

7.1 Current membership list

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

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

The Vice-chair presented the current list of members and representatives, and invited corrections. The membership effective for this meeting, as adjusted for changes introduced at this meeting, is shown in Annex A. Attendance for this meeting is shown in Annex B.

7.2 Roll Call of Members in Jeopardy; Jeopardy Letter (Non-Attendance and Letter Ballots)

NetApp is in jeopardy for this meeting cycle for lack of attendance at 2 of the last 3 plenary meetings. No company is in jeopardy for failure to vote on 2 of the last 3 letter ballots.

7.3 Announcement of New Members & Membership List Update

7.3.1 Changes in representation since last meeting

Alex Hong has been removed as an Alternate member for Broadcom, Inc. All other representation for Broadcom remains unchanged.

Bill Sears has been added as an Alternate member for Dell, Inc. All other representation for Dell remains unchanged.

7.3.2 New voting memberships

No new voting memberships were granted at this meeting. CommScope was present and expressed interest in obtaining voting membership, which requires they be present at the next meeting as well.

7.3.3 Voting memberships changed for other reasons

No changes to voting memberships were made at this meeting.

7.3.4 Changes in advisory membership

No changes to advisory memberships were made at this meeting.

7.3.5 Changes in emeritus membership

None

7.3.6 Call for Guests

The Chair called for guests and received no responses.

7.4 Call for Quorum

7.4.1 Membership for this meeting and call for quorum

Task Group T11.3 had 10 voting members at the previous T11.3 plenary meeting (October 05, 2023). At this meeting, December 07, 2023:

- 0 new voting member organizations (see 7.3.2);
- 0 reinstated voting member organization (see 7.3.3);
- 0 voting member organization losing voting membership for not attending the required number of meetings (see 7.2); and
- 0 voting member organizations losing voting membership for other reasons, the voting membership of T11.3 is now at 10 members.

7.4.2 Quorum Call

9 voting members responded to the call for quorum. A quorum of one third of the voting membership for this meeting requires at least 4 voting members present. The number 9 exceeds or equals one third of the voting membership for this meeting and also exceeds or equals 4. A quorum is therefore present for this meeting.

8 Approval of Minutes - Meetings #154

The prior plenary meeting of the Fibre Channel Protocol (T11.3) Task Group was #154 on 2023 October 05. The draft minutes of that meeting were posted as document [T11-2023-00343-v000](#).

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

Dave Peterson (Broadcom) moved and Chris Lyon (Amphenol) seconded to accept at this meeting [T11-2023-00343-v000](#) as the minutes of T11.3 meeting #154 on 2023 October 05. The motion passed unanimously.

See Action Item [23-018](#).

9 Review of Old Action Items

ACTION 23-015	T11.3 secretary to post T11-2023-00278-v001 as the approved minutes of T11.3 meeting #153. See Clause 8 .
ACTION 23-016	T11.3 secretary to post T11-2023-00343-v000 as the draft minutes of T11.3 meeting #154.

ACTION 23-017

Chair to make a request to INCITS to initiate a T11.3 RFC on the draft FC-SW-8 Rev 1.03 documented in [T11-2023-00282-v000](#).

All of the above action items were completed.

10 Liaison Reports

10.1 TC T11 and INCITS

T11 chair Howard Johnson (Broadcom) has posted the T11 TC report to other committees (posted as [T11-2023-00367-v000](#) along with the INCITS Report to T11 posted as [T11-2023-00370-v001](#). Since these will be reviewed in the T11 plenary we did not review them during this meeting but they are available online for review.

10.2 Other liaison reports

No other liaison reports were presented.

11 Project Status

11.1 FC-FS-7

Dave Peterson (Broadcom) presented the information posted as [T11-2023-00427-v000](#) about FC-FS-7 ad hoc activity since the last plenary meeting of this Task Group.

11.2 FC-GS-9

Dave Peterson (Broadcom) presented the information posted as [T11-2023-00417-v000](#) about FC-GS-9 ad hoc activity since the last plenary meeting of this Task Group.

Dave Peterson (Broadcom) made a motion, seconded by Jason Rusch (Viavi) to accept T11-2023-00181-v004 as RFC ballot comment resolution and forward FC-GS-9 draft standard Rev. 12.07 contained in T11-2023-00117-v003 to T11 to initiate a letter ballot. Motion passed In Favor – 9, Opposed – 0, Abstain – 0.

See Action Item [23-020](#).

11.3 FC-LS-5

Patty Driever (IBM) presented the information posted as [T11-2023-00429-v000](#) about FC-LS-5 ad hoc activity since the last plenary meeting of this Task Group.

11.4 FC-NVMe-3

Dave Peterson (Broadcom) presented the information posted as [T11-2023-00424-v000](#) about FC-NVMe-3 ad hoc activity since the last plenary meeting of this Task Group.

11.5 FC-RDMA

Dave Peterson (Broadcom) presented the information posted as [T11-2023-00412-v001](#) about FC-RDMA ad hoc activity since the last plenary meeting of this Task Group.

11.6 FC-SP-3

Roger Hathorn (IBM) presented the information posted as [T11-2023-00410-v000](#) about FC-SP-3 ad hoc activity since the last plenary meeting of this Task Group.

11.7 FC-SW-8

Dave Peterson (Broadcom) presented the information posted as [T11-2023-00418-v000](#) about FC-SW-8 activity since the last plenary meeting of this Task Group.

11.8 Joint T11.2/T11.3

Dean Wallace (Marvell) presented the information posted as [T11-2023-00420-v000](#) about Joint T11.2/T11.3 expert working group activity since the last plenary meeting of this Task Group.

11.9 Profile Review Expert Group Status

There was no meeting of the Profile Review Expert Group during this meeting cycle. This item is no longer being pursued. Chair to discuss with INCITS Secretariat how to terminate this expert group.

See Action Item [23-021](#).

12 Other Business and Technical Items.

12.1 2024 National Maintenance Review

12.1.1 Report ([eb-2023-00482](#))

12.1.2 Motions ([T11-2023-00304-v000](#))

Howard Johnson (Broadcom) moved and Roger Hathorn (IBM) seconded to recommend to INCITS the continued stabilization of the following standards. The rationale for continued stabilization is that the standards have ongoing validity and effectiveness, but they are mature and unlikely to require maintenance of any sort. This vote requires a 2/3 majority meeting vote in order to pass.

INCITS 508-2014[R2019]	Information Technology - Storage Management - Host Bus Adapter Application Programming Interface - 2nd Generation (SM-HBA-2)
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INCITS 485-2014[R2019]	Information Technology - Fibre Channel - Single-Byte Command Code Sets Mapping Protocol - 5 (FC-SB-5)
INCITS 509-2014[R2019]	Information Technology - Fibre Channel - Backbone - 6 (FC-BB-6)

Motion passed: In Favor – 9, Against-0, Abstain-0, No Response – 1.

Howard Johnson (Broadcom) moved and Roger Hathorn (IBM) seconded to recommend to INCITS to reaffirm the following the following standards/technical reports. This vote requires a 2/3 majority meeting vote in order to pass.

INCITS 540-2018/AM 1-2019	Information Technology – Fibre Channel – Non-Volatile Memory Express – Amendment 1 (FC-NVMe-AM 1)
INCITS 545-2019[R2019]	Information Technology - Fibre Channel - Framing and Signaling - 5 (FC-FS-5)
INCITS/TR-36-2004[R2019]	Information Technology - Fibre Channel - Device Attach (FC-DA)
INCITS/TR-41-2006/AM 1-2008[R2019]	INCITS Technical Report for Information Technology – Fibre Channel – Avionics Environment – Anonymous Subscriber Messaging (FC-AE-ASM) – Amendment 1

Motion passed: In Favor – 9, Against-0, Abstain-0, No Response - 1.

12.2 2024 Continued Stabilization Review

12.2.1 Report ([eb-2023-00483](#))

12.2.2 Motions ([T11-2023-00305-v000](#))

Howard Johnson (Broadcom) moved and Roger Hathorn (IBM) seconded to recommend to INCITS the continued stabilization of the following standards. The rationale for continued stabilization is that the standards have ongoing validity and effectiveness, but they are mature and unlikely to require maintenance of any sort. This vote requires a 2/3 majority meeting vote in order to pass.

INCITS 332-1999[S2014]	Information technology - Fibre Channel - Arbitrated Loop (FC-AL-2)
INCITS 386-2004	Information technology - Fibre Channel - Host Bus Adapter Application Programming Interface (FC-HBA)

INCITS 399-2004[S2014]	Information Technology - Fibre Channel - Switch Application Programming Interface (FC-SWAPI)
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Motion passed: In Favor – 9, Against-0, Abstain-0, No Response – 1.

See action item [23-022](#).

13 Review T11.3 Project Status

The current project status is available among the electronically distributed meeting documents as well as on the INCITS web site [Project Status](#). The chair asked that if the facilitators or anyone else finds errors that they inform him.

14 Future Meeting Schedule

14.1 Plan for the next meeting week

The next meeting cycle will be a hybrid of both face-to-face (likely in Tampa, FL) and virtual via Zoom the week of **05 February – 09 February 2024**. More discussion on this will occur at the T11 plenary meeting. **SNIA/SFF** will host the face-to-face portion and **INCITS** will continue to provide the Zoom virtual meeting capability.

Refer to the [INCITS T11 meeting web site page](#) for the meeting announcement, which will always contain the latest information on future T11.3 plenary meetings.

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

14.2 Ad-hoc meetings

Refer to the [INCITS T11 meeting web site page](#) for further details. This URL will always contain the latest announcements of pending work group interim meetings and teleconferences.

15 Action Items

ACTION 23-018	T11.3 secretary to post <u>T11-2023-00343-v001</u> as the approved minutes of T11.3 meeting #154.
ACTION 23-019	T11.3 secretary to post <u>T11-2023-00405-v000</u> as the draft minutes of T11.3 meeting #155.
ACTION 23-020	Chair to forward forward FC-GS-9 draft standard Rev. 12.07 contained in T11-2023-00117-v003 to T11 to request initiation of a letter ballot.

ACTION 23-021	T11 Chair to discuss with INCITS Secretariat what we need to do in order to terminate the Profile Review Expert Group.
ACTION 23-022	Chair to forward votes of Maintenance and Stabilization motions to INCITS for further processing.

16 Final Attendance Notice/Check

The chair reviewed the electronically registered attendance list, advised that the list was about to close, and reminded those who had not registered that the list would then become the only formal record of attendance at this meeting.

Chair also reminded everyone that physical presence at the meeting (via Face-to-Face or dial-in during the meeting) is required in order to count towards membership requirements. If you sign in but are not physically present (or logged in at the meeting for hybrid meetings), the sign-in will be discarded by INCITS.

17 Adjournment

David Peterson (Broadcom) moved and Jason Rusch (Viavi) seconded to adjourn at 2023 December 07 11:08 AM EST. The motion passed unanimously.

A Membership

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

Organization	Name	Principal/ Alternate
Amphenol Corporation	Chris Lyon Paul Coddington Fan Fu Isaac Horn Lei Huang Sam Kocsis Hu Silver	Principal Alternate Alternate Alternate Alternate Alternate Alternate
Broadcom Inc	David Peterson Ben Chu Howard Johnson Mark Jones Anil Mehta Dr. Ramana Murty James Smart Anil Veerabhadrapa	Principal Alternate Alternate Alternate Alternate Alternate Alternate Alternate
Cisco Systems, Inc.	Mike Blair Harsha Bharadwaj Dhiraj Kashyap Fabio Maino Edward Mazurek	Principal Alternate Alternate Alternate Alternate

	Mark Nowell Prashant Pathak Sai Pavan Kiran Ranabhor Christian Schmutzer Ramesh Sivakolundu Yi Tang Sujith V R Xiaohong Wu Xiaokang Zhu	Alternate Alternate Alternate Alternate Alternate Alternate Alternate Alternate Alternate Alternate
Dell	David Brown Jai Bansai David Black Vinay Sawal Bill Sears Erik Smith Joseph White	Principal Alternate Alternate Alternate Alternate Alternate Alternate
Hewlett Packard Enterprise	Barry Maskas Rupin Mohan Krishna Babu Puttagunta	Principal Alternate Alternate
IBM Corporation	Roger Hathorn Patty Driever Stephen Guendert	Principal Alternate Alternate
Marvell Semiconductor Inc	Raul Oteyza Andrew Joy Alan Spalding Dean Wallace	Principal Alternate Alternate Alternate
NetApp Inc	Madhu Pai Sridhar Balasubramanian	Principal Alternate
Teledyne LeCroy Corporation	Henry Poelstra Amit Bakshi Craig Foster Tom Friend Rakesh Kathiresan Natarajan Nick Kriczky Douglas Lee Srikant Tadigadapa Jim Yasueda	Principal Alternate Alternate Alternate Alternate Alternate Alternate Alternate Alternate Alternate
Viavi Solutions Inc.	Jason Rusch Scott Baxter George Bullis	Principal Alternate Alternate

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

Organization	Name	Principal/ Alternate
Coherent Inc	Roberto Rodes	Principal
Credo Semiconductor	Phil Sun Dr. Fang Cai Yasuo Hidaka	Principal Alternate Alternate
Futurewei Technologies Inc	Victor Cao Timothy Jeffries	Principal Alternate
MediaTek USA Inc	Tamer Ali Pei-Rong Li YC Lin Henry Park Mau-Lin Wu	Principal Alternate Alternate Alternate Alternate
TE Connectivity	Daniel Gorenc Dwayne Crawford	Principal Alternate
Unisys Corporation	Jeffrey Dremann Phil Shelton	Principal Alternate
VMware Inc	Neil MacLean Wenchao Cui Wenhua Liu Murali Rajagopal Ahmad Tawil	Principal Alternate Alternate Alternate Alternate

Reflecting the changes at this meeting, these people have been granted Emeritus membership in INCITS Fibre Channel (T11) Technical Committee, recognizing their many years of skilled leadership and high quality technical contribution:

Dr. William Ham
Mr. Robert Kembel
Mr. Joseph Mathis
Mr. Gary Stephens
Mr. Horst Truededt
Mr. Steven Wilson

B Attendance

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

Sequence	Affiliation	Name	In Person
1	AMPHENOL CORP	Chris Lyon	Y
2	BROADCOM INC	Howard Johnson	Y
3	BROADCOM INC	Anil Mehta	Y
4	BROADCOM INC	Mark Jones	Y
5	BROADCOM INC	David Peterson	Y
6	CISCO SYSTEMS INC	Harsha Bharadwaj	Y
7	CISCO SYSTEMS INC	Mike Blair	N
8	CISCO SYSTEMS INC	Edward Mazurek	Y
9	CISCO SYSTEMS INC	Kiran Ranabhor	Y
10	CISCO SYSTEMS INC	Ramesh Sivakolundu	Y
11	CISCO SYSTEMS INC	Xiaohong Wu	Y
12	COMMSCOPE	Earl Parsons	N
13	DELL INC	David Brown	Y
14	HEWLETT PACKARD ENTERPRISE	Barry Maskas	N

15	IBM CORPORATION	Patty Driever	Y
16	IBM CORPORATION	Roger Hathorn	Y
17	MARVELL SEMICONDUCTOR INC	Raul Oteyza	N
18	MEDIATEK USA INC	Henry Park	N
19	TELEDYNE LECROY CORP	Henry Poelstra	N
20	VIAVI SOLUTIONS INC	Jason Rusch	Y

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

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

C Attendance at Ad Hoc Meetings

C.1 FC-NVMe-3

Organization	Representative	Member Company
Broadcom Inc	Howard Johnson	Y
Broadcom Inc	David Peterson	Y
Broadcom Inc	James Smart	Y
Cisco Systems Inc	Harsha Bharadwaj	Y
Cisco Systems Inc	Edward Mazurek	Y

Dell Inc	David Brown	Y
Hewlett Packard Enterprise	Barry Maskas	Y
IBM Corporation	Patty Driever	Y
IBM Corporation	Roger Hathorn	Y
Marvell Semiconductor Inc	Raul Oteyza	Y

C.2 FC-LS-5

Organization	Representative	Member Company
Broadcom Inc	Howard Johnson	Y
Broadcom Inc	David Peterson	Y
Broadcom Inc	James Smart	Y
Cisco Systems Inc	Harsha Bharadwaj	Y
Cisco Systems Inc	Edward Mazurek	Y
Dell Inc	David Brown	Y
Hewlett Packard Enterprise	Barry Maskas	Y
IBM Corporation	Patty Driever	Y
IBM Corporation	Roger Hathorn	Y
Marvell Semiconductor Inc	Raul Oteyza	Y
Viavi Solutions Inc	Jason Rusch	Y

C.3 FC-FS-7

Organization	Representative	Member Company
Broadcom Inc	Howard Johnson	Y
Broadcom Inc	David Peterson	Y
Broadcom Inc	James Smart	Y
Cisco Systems Inc	Harsha Bharadwaj	Y
Cisco Systems Inc	Ed Mazurek	Y
Dell Inc	David Brown	Y
Hewlett Packard Enterprise	Barry Maskas	Y
IBM Corporation	Patty Driever	Y
IBM Corporation	Roger Hathorn	Y
Marvell Semiconductor Inc	Raul Oteyza	Y
Viavi Solutions	Jason Rusch	Y

C.4 FC-SW-8

Organization	Representative	Member Company
Broadcom Inc	Howard Johnson	Y
Broadcom Inc	David Peterson	Y

Broadcom Inc	James Smart	Y
Cisco Systems Inc	Harsha Bharadwaj	Y
Cisco Systems Inc	Edward Mazurek	Y
Dell Inc	David Brown	Y
Hewlett Packard Enterprise	Barry Maskas	Y
IBM Corporation	Patty Driever	Y
IBM Corporation	Roger Hathorn	Y

C.5 FC-RDMA

Organization	Representative	Member Company
Broadcom Inc	David Peterson	Y
Broadcom Inc	James Smart	Y
Cisco Systems Inc	Harsha Bharadwaj	Y
Cisco Systems Inc	Edward Mazurek	Y
Dell Inc	David Brown	Y
IBM Corporation	Roger Hathorn	Y
Viavi Solutions Inc	Jason Rusch	Y

C.6 FC-GS-9

Organization	Representative	Member Company
Broadcom Inc	David Peterson	Y
Broadcom Inc	James Smart	Y
Cisco Systems Inc	Harsha Bharadwaj	Y
Cisco Systems Inc	Mike Blair	Y
Cisco Systems Inc	Edward Mazurek	Y
Dell Inc	David Brown	Y
Hewlett Packard Enterprise	Barry Maskas	Y
IBM Corporation	Roger Hathorn	Y

C.7 FC-SP-3

Organization	Representative	Member Company
Broadcom Inc	Howard Johnson	Y
Broadcom Inc	David Peterson	Y
Broadcom Inc	James Smart	Y
Cisco Systems Inc	Harsha Bharadwaj	Y
Cisco Systems Inc	Edward Mazurek	Y

Dell Inc	David Brown	Y
Hewlett Packard Enterprise	Barry Maskas	Y
IBM Corporation	Patty Driever	Y
IBM Corporation	Roger Hathorn	Y
Viavi Solutions Inc	Jason Rusch	Y

C.8 Joint T11.2/T11.3

Organization	Representative	Member Company
Broadcom Inc	Howard Johnson	Y
Broadcom Inc	Anil Mehta	Y
Broadcom Inc	David Peterson	Y
Broadcom Inc	James Smart	Y
Cisco Systems Inc	Harsha Bharadwaj	Y
Cisco Systems Inc	Edward Mazurek	Y
Cisco Systems Inc	Ramesh Sivakolundu	Y
Cisco Systems Inc	Xiaohong Wu	Y
CommScope	Earl Parsons	Y
IBM Corporation	Patty Driever	Y
IBM Corporation	Roger Hathorn	Y
Macom	Thomas Palkert	Y
Marvell Semiconductor Inc	Mike Dudek	Y
Marvell Semiconductor Inc	Dean Wallace	Y
OFS Fitel LLC	Mabud Choudhury	Y