



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



Doc. No.: T10/24-079

Date: November 8, 2024

Reply to: Curtis Stevens

To: T10 Membership
From: Curtis Stevens and Bill Martin
Subject: Minutes: T10 Plenary Meeting #184, November 6, 2024
Plano, TX / Hybrid

Agenda

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16. Adjournment

Results of Meeting

1. Opening Remarks

Bill Martin (Samsung) called the meeting to order at 4:01pm (CST), November 6, 2024.

Bill Martin (Samsung) thanked Ralph Weber and Western Digital for hosting our meeting in Plano, TX. Bill Martin also thanked Samsung for providing Zoom for virtual meeting services.

Bill Martin (Samsung) reported that INCITS Technical Committee (TC) membership forms are available on the INCITS website at:

<https://standards.incits.org/kcpm/signup>

Attendance was shown in the zoom meeting attendance tab.

As is customary, the people attending in person introduced themselves. Attendance (see enclosure 1) was taken electronically via the meeting website.

2. Approval of Agenda

The agenda was posted only 1 week ago, so a vote on 12.3 is out of order.

Bill Martin (Samsung) moved and Curtis Stevens (STX) seconded that the agenda be approved as modified and presented. The motion passed unanimously.

3. Attendance, Membership, Attendance Jeopardy, and Letter Ballot Jeopardy

People may attend T10 meetings as guests. Guests who continue to attend T10 meetings are expected to join T10 and to pay the INCITS Service Fees.

The membership requirements were reviewed. INCITS rules permit one vote per organization. A new organization may earn voting rights by:

- paying the INCITS Service Fees; and
- attending two of three consecutive T10 plenary meetings.

At their second T10 plenary meeting, new organizations may begin voting. For the complete INCITS rules, please see the *INCITS Organization, Policies and Procedures* document at:

<https://www.incits.org/standards-information/policies>

To maintain membership, organizations must pay the annual INCITS Service Fee.

Advisory members need not attend any T10 meetings, but are always welcome. Advisory members are not permitted to vote.

Voting members have minimum attendance requirements to maintain their vote. If a voting organization fails to attend two of the last three T10 meetings, they are in attendance jeopardy and are warned that failing to attend the next T10 meeting will result in their membership being changed to Advisory.

Bill Martin (Samsung) reported that one organization was in attendance jeopardy for this meeting.

E-mails were sent to one person from one organization(s) informing them that the organization's membership is in jeopardy due to non-attendance and that their membership will be changed to Advisory if they do not attend this meeting. The following organization(s) were in attendance jeopardy:

Keysight

A representative from Keysight was not present for this meeting, Keysight has lost T10 voting privileges and their status has been changed from Voting to Advisory.

If a voting organization fails to return two out of the last three letter ballots, they are in letter ballot jeopardy and are warned that failing to return the next letter ballot will result in their membership being changed to Advisory. Accelerated letter ballots are not included in letter ballot jeopardy calculations.

The current letter ballot jeopardy status was as shown:

T10 Letter Ballot Jeopardy Report -- November 6, 2024

Organization

	Date: 19-Feb-2023 Acronym: SAT-5	23-Jun-2024 SPC-6	25-Sep-2024 SSC-5-AM1	13-Oct-2024 SBC-5
Keysight	X	X	DNV	DNV
Microchip	X	DNV	DNV	DNV

Key:

- DNV Organization failed to return letter ballot
- X Organization Voted
- Organization was not a voting member for the letter ballot

Microchip was sent a Letter Ballot Jeopardy notice following the 25 September ballot on forwarding SSC-5-AM1 to public review and did not submit a vote on the 13 October ballot on forwarding SBC-5 to public review. Microchip's membership was changed from voting to advisory.

Keysight was in letter ballot jeopardy, but their membership was changed from voting to advisory due to lack of attendance.

Marvell Semiconductor requested INCITS to change their membership from voting to advisory.

With the loss of Keysight, Microchip, and Marvel as voting members, the T10 voting membership during the meeting was 14 organizations.

The T10 voting membership during this meeting is 14 organizations. Enclosure (1) is the list of the people present at the meeting and enclosure (3) is the current T10 membership list. There were 14 voting organizations present at the meeting. Five of the attendees were in person, the remainder were on the teleconference.

Bill Martin (Samsung) reviewed the information provided by the meeting website attendance system and reported that 11 voting organizations had already registered representation by this time in the meeting. Based on this report, Bill Martin (Samsung) declared that the INCITS quorum requirements for the meeting had been fulfilled.

Bill Martin (Samsung) asked if any organization was interested in becoming a voting member.

Microchip indicated that they would like to become a perspective voting member.

Bill Martin (Samsung) reported that a summary of the attendance for all Ad Hoc meetings since the previous plenary are available in enclosure (2).

4. Approval of Minutes - September 12, 2024 [\(24-058r0\)](#)

Curtis Stevens reported that there was one correction to the plenary minutes. Foxconn was listed as in attendance jeopardy when they were not in jeopardy.

Bill Martin (Samsung) reported that the July plenary meeting minutes did not record Foxconn's attendance. Corrections have been made to the July 2024 plenary minutes.

Bill Martin (Samsung) moved and Curtis Stevens (STX) seconded that the July T10 minutes in [24-052r1](#) be approved as corrected. There was meeting discussion. The motion passed unanimously.

Bill Martin (Samsung) moved and Curtis Stevens (STX) seconded that the T10 minutes in [24-058r1](#) be approved. There was meeting discussion. The motion passed unanimously.

5. Review of Old Action Items

1125 Chair to forward SBC-5 to INCITS for first public review

1126 Chair to report recommendations for National Maintenance Items in [24-063r1](#) to INCITS

All action items have been completed.

6. INCITS Code of Conduct

The INCITS Code of Conduct was displayed. No interpretation or explanation of the INCITS Code of Conduct was provided.

Members were informed that if there were concerns about conduct at the meeting they should inform the chair and if there are any concerns that are unable to be resolved in the meeting, they should send an E-Mail to Concerns@Standards.INCITS.org to engage INCITS for resolution of the concerns.

For the complete INCITS Code of Conduct information, please see the INCITS Code of Conduct document at:

<https://www.incits.org/standards-information/policies>

7. INCITS Antitrust Guidelines

All T10 members should be aware of the INCITS antitrust guidelines available at <https://incits.org/standards-information/legal-info>.

Bill Martin (Samsung) reminded committee members that all persons present at a T10 meeting are responsible for identifying potential violations of the antitrust guidelines and reporting them to the person chairing the meeting. Discussions of the following topics are considered sensitive:

- Any company's prices or pricing policies;
- Specific R&D, sales and marketing plans;
- Any company's confidential product, product development or production strategies;
- Whether certain suppliers or customers will be served;
- Prices paid to input sources; or
- Complaints about individual firms or other actions that might tend to hinder a competitor in any market.

8. Call for Patents

Bill Martin (Samsung) explained that this is a regular agenda item to identify any potential patent issues with developing standards and technical reports.

The INCITS patent slides were displayed. No interpretation or explanation of the patent policy was provided. The Chair noted that these slides and a patent declaration form are available in the Patent Policy section of the INCITS website accessed by:

<https://incits.org/standards-information/legal-info>

Questions about this policy are to be referred to the participant's legal counsel or the ANSI General Counsel.

The meeting chair issued a call for patents. There were no responses to the call for patents.

9. Document Distribution

Bill Martin (Samsung) noted that T10 documents are distributed through the <https://www.t10.org/> website.

As an archival mechanism, electronic 'mailings' are prepared about one week following the T10 plenary meetings. These 'mailings' take the form of a ZIP file that is placed in the members-only area of the T10 ftp site. T10 members can access this area by using the following URL:

<ftp://t10member:password@ftp.t10.org/>

The password changes after each T10 meeting. Members can also obtain the current password by using the form at:

<https://www.t10.org/members/pswdhelp.htm>

People can obtain T10 document numbers for new and revised T10 documents by filling out a web form at <https://www.t10.org/members/>. The assigned T10 document number will be sent to the requestor by e-mail and will also appear at: <https://www.t10.org/fupload.htm>. The requestor may either use forms at this URL or reply to the e-mail to post his/her document.

T10 members can complete this entire process using their personal T10 password, which can be retrieved at:

<https://www.t10.org/members/pswdhelp.htm>

Bill Martin (Samsung) noted that non-members can also use the above document number process, but their requests will require approval by an administrator.

To be added to the T10 Reflector, please go to the following URL:

<https://www.t10.org/t10r.htm>

We are updating the reflector software to conform to current security requirements. It should be back up and running soon.

The INCITS Secretariat maintains a World Wide Web page at:

<https://www.incits.org/>

Currently, Western Digital Technologies maintains a website on behalf of T10 on virtual servers donated by their company at:

<https://www.t10.org/>

The T10 document register is available at:

<ftp://ftp.t10.org/t10/dr.txt>

If you are a T10 member, you can set up a T10 personal mirror site for yourself and/or, within your organization's firewall, for your whole company. Directions can be found at:

<https://www.t10.org/mirror.htm>

T10 would like to thank Ralph Weber and Western Digital for work they have done in the hosting of the T10 website!

10. Project Status Reports

10.1 Project Status Summary and INCITS Liaison [Martin]

Bill Martin (Samsung) reported that the current [T10 project status summary](#) was available on the meeting website and will be included in the virtual mailing.

For members with an INCITS login the [T10 project status summary](#) can also be found on the INCITS SCSI landing page.

10.2 Serial Attached SCSI -5 (SAS-5) SAS-5 BSR INCITS 561 [Weber]

Ralph Weber (WDC) reported on SAS-5 activities, more information is in [24-078](#). The current revision is [SAS-5r01a](#). There were no proposals recommended to the plenary, no proposals in development, and one proposal waiting integration. Proposal integration and RFC are waiting on figures.

10.3 SCSI Primary Commands - 6 (SPC-6) BSR INCITS 566 [Weber]

Ralph Weber (WDC) reported on SPC-6 activities, more information is in [24-078](#). The current revision is [SPC-6r13](#). SPC-6 completed its EB letter ballot on 4-Nov-2024 and is waiting for approval from ANSI on 11-Nov-2024.

10.4 SCSI Block Commands - 5 (SBC-5) BSR 571 [Martin]

Bill Martin (Samsung) reported on SBC-5 activities, more information is in [24-078](#). The results of the letter ballot were 13:0:0:4. Public review is scheduled to begin 8-Nov-2024 and end 7-Jan-2025.

10.5 SCSI to ATA Translation - 6 (SAT-6) BSR INCITS 578 [Stevens]

Curtis Stevens (STX) reported on SAT-6 activities, more information is in [24-078](#). The current revision is [SAT-6r02](#). There were no proposals recommended to the plenary, no proposals in process and no proposals waiting integration. No new revision is expected prior to the next meeting.

10.6 Zoned Block Commands - 3 (ZBC-3) BSR INCITS 579 [Weber]

Ralph Weber (WDC) reported on ZBC-3 activities, more information is in [24-078](#). The current revision is [ZBC-3r03](#). There were no proposals recommended to the plenary, no proposals in process and two proposals waiting integration. A new revision is planned prior to the next meeting.

10.7 SCSI Stream Commands - 5 Amendment (SSC-5-AM1) BSR INCITS 503 AM1 [Butt]

Kevin Butt (IBM) reported on SSC-5-AM1 activities, more information is in [24-078](#). The current revision is [SSC-5-AM1r03](#). First public review is scheduled to end on 31-Dec-2024.

10.8 SCSI to NVMe Translation (SNT) [Stevens]

Curtis Stevens (STX) reported on SNT activities, more information is in [24-078](#). [24-012r2](#) has been posted based on a review during a previous CAP Ad Hoc and includes the one proposal recommended for incorporation in CAP. There was one proposal recommended for incorporation into [24-012r2](#) and one proposal under development, and no proposals waiting integration.

Curtis Stevens (WDC) moved and Brad Besmer (Broadcom) seconded that [24-012r3](#) be accepted as revision zero of SNT. Motion passed unanimously.

10.9 SCSI Primary Commands - 7 (SPC-7) BSR INCITS 586 [Weber]

Ralph Weber (WDC) reported on SPC-7 activities, more information is in [24-078](#). The current revision is [SPC-7r01](#). There were two proposals recommended to the plenary, no proposals in development, and two proposals waiting integration. A new revision is planned prior to the next meeting.

10.10 SCSI Block Commands - 6 (SBC-6) BSR INCITS 587 [Boutiette]

Jeff Boutiette (STX) reported that SBC-6 is waiting for completion of SBC-5. There was one proposal recommended to the plenary, no proposals under development, and no proposals waiting integration. No new revision is planned until SBC-5 is published.

11. Old Business

There was no old business.

12. New Business

12.1 Actions on CAP Ad Hoc Recommendations

The following recommendations were made to the T10 plenary:

For inclusion into SPC-7

[24-069r0](#) as modified [\(24-069r1\)](#) (SPC-7 Add WRITE BUFFER(16) command) [Besmer].

For inclusion into SPC-7, SBC-6, and SNT

[24-066r0](#) as modified [\(24-066r1\)](#) (SPC-7 SBC-6 SNT Add NVMe Information VPD Page) [Besmer].

Kevin Butt (IBM) moved and Curtis Stevens (STX) seconded that:

[24-069r0](#) as modified [\(24-069r1\)](#) be approved for inclusion into SPC-7; and

[24-066r0](#) as modified [\(24-066r1\)](#) be approved for inclusion into SPC-7, SBC-6, and SNT.

There was discussion on the motion. Motion passed unanimously.

12.2 Future T10 meeting scheduling discussion [\(24-073r0\)](#) [Martin]

Bill Martin (Samsung) discussed the results of the survey monkey on possible changes to the T10 meeting schedule. There was meeting discussion on the survey.

Ralph Weber (WDC) moved and Curtis Stevens (STX) seconded that the T10 plenary be the week following the CAP Ad Hoc. There was meeting discussion. Motion passed unanimously. Bill Martin stated that he will create a doodle poll to select the day of the week and the time that the plenary will be held.

The CAP Ad Hoc recommended to the plenary that the meeting schedule remain at six hybrids for CAP. There was discussion on this recommendation. Bill asked each member for their input on this recommendation. The points mentioned in the discussion included that some felt that the face-to-face portion of the meeting allowed better collaboration and offline discussions. Others indicated that mixed mode meetings were more difficult for those not present at the face-to-face portion of the meeting. There was discussion of trying to have more directed ad hoc meetings between plenary meetings. The survey also asked for an opinion about when and how the plenary meeting should be held. The majority of those responding preferred a virtual meeting the week following a mixed mode CAP ad hoc meeting.

Ralph Weber (WDC) moved and Curtis Stevens (STX) seconded that the CAP Ad Hoc be scheduled for Tuesday and Wednesday and that there be six Ad Hoc hybrid meetings per year. There was meeting discussion. Motion passed: 5:3:3.

12.3 Project Proposal: FCP-6 [\(24-077r1\)](#) [Peterson]

David Peterson (Broadcom) conducted a review of [24-077r1](#). This is a proposal for moving all of the FCP projects to T11. CAP recommended that the FCP project remain in T10 and that the project proposal for FCP-6 be processed in T10.

Dave indicated that moving this project to T11 would allow maintenance of all of the FCP standards to be handled by T11 as opposed to T10. There was significant concern that since T11 documents are not openly available to T10 members that moving this to the T11 committee would not allow T10 to effectively participate in the development of future FCP standards. Additionally, as FCP has requirements for support by other SCSI standards (e.g., SAM-6), going forward if there is a subsequent revision following the proposed FCP-6 that a new set of committee members may not remember to consult with T10 about modifications to the standard. The recommendation of T10 members was that since the process for FCP-5 worked well that Dave consider following that process for FCP-6 rather than moving this project to T11. As this was not on the agenda 2 weeks prior to the meeting and no motion on this could be done at this meeting, Dave will bring this back to the next plenary meeting.

13. Liaison Reports

13.1 T11 Liaison Report [Johnson/Coddington]

There was no T11 liaison meeting between the September T10 plenary meeting and this meeting. David Peterson provided a verbal report regarding the August meeting week.

13.2 T13 Liaison Report [Weber]

Ralph Weber (WDC) presented the T13 liaison report, which was made available electronically in [24-013r5](#). The next T13 meeting is December 10-11, 2024 and is a hybrid meeting in Lake Forest, CA. For additional details regarding T13 activities see www.t13.org.

13.3 JTC1 SC25 WG4 TAG [Knight]

Fred Knight (Kioxia) presented the JTC1 SC25 WG4 TAG liaison report. SC25 voted to disband WG4. SC25 WG4 TAG voted to disband the TAG since there was no international organization to be an advisory group for. Fred noted that T10 continues to need an International Representative to move standards through the international processes. The T10 chair asked Fred Knight to continue to be the International Representative and Fred agreed.

In future agendas, this item will be titled T10 IR Report.

Ralph Weber (WDC) reported that ZBC-2 ISO/IEC 14776-346:2024 is available for purchase on the ISO website.

13.4 SCSI Trade Association (STA) [Brett/Coddington]

In the absence of Cameron Brett, Jeremiah Tussy (Microchip) presented the STA report, which was made available electronically in [24-080r0](#). For additional details regarding STA activities, see <https://www.snia.org/groups/sta-forum>.

13.5 SNIA [Martin]

Bill Martin (Samsung) presented the SNIA liaison report, which was made available electronically in [24-014r5](#). For additional details regarding SNIA activities, see www.snia.org.

13.6 DMTF Report [Borden]

In the absence of James Borden (Kioxia), John Geldman (Kioxia) presented the DMTF report, which was made available electronically in [24-081r0](#). This report contains a list of publicly available links and information.

14. Review of Action Items

- 1127 *John Geldman to work with the appropriate people to schedule an ad hoc to discuss the interaction of T10, T13, and DMTF development efforts, targeting the week of 10 - 11 December 2024 coincident with the T13 plenary meeting.*

15. Meeting Schedule

15.1 Authorization of Ad Hoc Meetings and Conference Calls

The next plenary meeting of T10 will be a virtual meeting to be scheduled the week of January 20. A poll of membership for the time of the meeting will be done and a meeting announcement will be made available by 1 December 2024 on the T10 website at:

<https://www.t10.org/meeting.htm>

The meeting plan for the next meeting week is:

January 2025 Meeting Map (Hybrid meeting with the physical meeting location to be in Tucson, AZ)
(The meeting map is shown in MST timezone)

Tuesday	01/14	9	10	11	12	1	2	3	4	5	6
		+=====+									
		CAP Ad Hoc									(15)
		+=====+=====+=====+=====+-----+									
		STA Ad Hoc*V			lunch	STA Marcom*V			STA BOD*V		(10)
		+-----+				+-----+				+-----+	
Wednesday	01/15	9	10	11	12	1	2	3	4	5	6
		+=====+									
		CAP Ad Hoc									(15)
		+=====+									
							SFF*V				(10)
		+-----+									

T10 Plenary meeting to be held virtually the week of January 20 with date and time announced via the reflector by 1 December 2024.

/ means the next meeting starts when the previous meeting concludes.

Meetings marked with == are T10-authorized meetings.

Meetings marked with -- are meetings of other groups and may change without notice.

Meetings marked with (*) are closed meetings of other groups.

Meetings marked with (*V) are closed meetings of other groups meeting virtually with content that is pertinent to T10.

There are no working group or Ad Hoc meetings requested prior to the 01/13/2023 start of the next T10 meeting week.

Other T10-authorized meetings outside of the T10 meeting week are:

Meeting	Date(s)	Location / Host
DMTF T10/T13 interaction	TBD during 10-11 Dec 2024	Telecon / Samsung

Bill Martin (Samsung) noted that the Ad Hoc meetings are required to operate under the same policies and procedures as the T10 plenary, and the results of an Ad Hoc meeting are not binding on the parent committee. Ad Hoc meetings should strive to achieve consensus prior to bringing issues to the T10 plenary.

15.2 Long-term T10 meeting week schedule

The long-term T10 meeting week schedule is:

Dates	Location	Host / Comments
Jan 13-17, 2025	Tucson, AZ	IBM
Mar 3-7, 2025	Dallas, TX	WD
May 5-9, 2025	Ft. Collins, CO	HPE
Jul 14-18, 2025	Longmont, CO	STX
Sep 8-12, 2025	<i>TBD</i>	SFF
Nov 3-7, 20025	Plano, TX	WD

NOTE: Dates, locations, and hosts shown above in *red italic font* are not approved by T10 yet and are subject to change.

Bill Martin (Samsung) moved and Curtis Stevens (STX) seconded that T10 authorize:

- a. the T10 related Ad Hocs and meetings listed above;
- b. the T10 meeting week schedule for the meeting week starting 01/13/2025; and
- c. all members of T10 present as well as visitors present (per the public access procedures) be allowed to participate in the meetings.

There was discussion on the motion. Motion passed unanimously.

It was noted that meeting hosts need a minimum of 4 months notice of meeting requirements of other organizations in order to provide them rooms with the T10 meeting rooms. It was also noted that over 2 months notice of locations was desired as companies are requiring advance planning for travel.

16. Adjournment

The meeting was adjourned at 5:57pm CST on Thursday November 6, 2024.

Enclosure(1) -- Meeting Attendees

Wednesday November 6, 2024

Name	Status	Organization	In Person
Mr. Brad Besmer	P	Broadcom Inc.	Yes
Mr. David Peterson	A	Broadcom Inc.	No
Mr. James Giannoules	P	Dell Inc.	No
Mr. Kevin Marks	A	Dell Inc.	No
Mr. Jon Jacoby	P	Foxconn Electronics	No
Mr. Curtis Ballard	P	Hewlett Packard Enterprise	No
Mr. Kevin Butt	P	IBM Corporation	No
Mr. John Geldman	P	Kioxia	No
Mr. Frederick Knight	A	Kioxia	Yes
Mr. Phil Colline	P AV	Marvell Semiconductor Inc	No
Mr. Jeremiah Tussey	AAV	Microchip	No
Mr. Christian Gyllenskog	P	Micron Technology Inc	No
Mr. William Martin	P	Samsung Semiconductor Inc (SSI)	No
Mr. Jeff Boutiette	A	Seagate Technology	No
Mr. Curtis Stevens	P	Seagate Technology	Yes
Mr. Dan Gorenc	P	TE Connectivity	No
Mr. Patrick Hery	P	Toshiba America Electronic Component	Yes
Mr. Ralph Weber	P	Western Digital Corporation	Yes

18 People Present (5 in person)

12 Voting Organizations Present

Status Key: P - Principal

A - Alternate

AV - Advisory Member

E - Emeritus

L - Liaison

V - Visitor

XO - Ex Officio (non-voting; several INCITS officers are Ex Officio members of T10)

Enclosure(2) -- CAP Ad Hoc Hybrid Meeting Attendance Report

Tuesday November 5, 2024 - Wednesday November 6, 2024.

Name	Status	Organization	In Person
Mr. Brad Besmer	P	Broadcom Inc.	Yes
Mr. Kevin Marks	A	Dell Inc.	No
Mr. Jon Jacoby	P	Foxconn Electronics	No
Mr. Curtis Ballard	P	Hewlett Packard Enterprise	No
Mr. Kevin Butt	P	IBM Corporation	No
Mr. John Geldman	P	Kioxia	No
Mr. Frederick Knight	A	Kioxia	Yes
Mr. Phil Colline	P AV	Marvell Semiconductor Inc	No
Mr. Christian Gyllenskog	P	Micron Technology Inc	No
Mr. William Martin	P	Samsung Semiconductor Inc (SSI)	No
Mr. Jeff Boutiette	A	Seagate Technology	No
Mr. Curtis Stevens	P	Seagate Technology	Yes
Mr. Patrick Hery	P	Toshiba America Electronic Component	Yes
Mr. Ralph Weber	P	Western Digital Corporation	Yes

14 People Present (5 in person)

11 Voting Organizations Present

1 Advisory Organization(s) Present

Status Key: P - Principal

A - Alternate

AV - Advisory Member

E - Emeritus

L - Liaison

V - Visitor

XO - Ex Officio (non-voting; several INCITS officers are Ex Officio members of T10)

Enclosure(3) -- T10 Membership Database

Generated on 2024/11/07 at 00:18:00

Organization	Name	Status
Advantest	Ms. Danielle Romano	(P AV)
Amphenol Corporation	Mr. Paul Coddington	(P)
Amphenol Corporation	Mr. Brad Brubaker	(A)
Amphenol Corporation	Mr. Zhineng Fan	(A)
Amphenol Corporation	Mr. Donald Harper	(A)
Amphenol Corporation	Mr. Jesse Jaramillo	(A)
Amphenol Corporation	Mr. Sam Kocsis	(A)
Amphenol Corporation	Mr. Martin Li	(A)
Amphenol Corporation	Mr. Chris Lyon	(A)
Amphenol Corporation	Mr. Alex Persaud	(A)
Amphenol Corporation	Mr. Michael Scholeno	(A)
Amphenol Corporation	Mr. Hu Silver	(A)
BDT Media Automation GmbH	Mr. Franz Bucher	(P AV)
BDT Media Automation GmbH	Mr. Stefan Hauser	(A AV)
BizLink Technology Inc	Mr. Tristan Hsiao	(P AV)
Broadcom Inc.	Mr. Brad Besmer	(P)
Broadcom Inc.	Mr. Wenchao Cui	(A)
Broadcom Inc.	Mr. Srikanth Dravida	(A)
Broadcom Inc.	Mr. Jeffrey Gauvin	(A)
Broadcom Inc.	Mr. Rick Kutcipal	(A)
Broadcom Inc.	Mr. Bernhard Laschinsky	(A)
Broadcom Inc.	Mr. Wenhau Liu	(A)
Broadcom Inc.	Mr. Mike Panas	(A)
Broadcom Inc.	Mr. David Peterson	(A)
Broadcom Inc.	Mr. James Smart	(A)
Broadcom Inc.	Mr. Jason Stuhlsatz	(A)
Broadcom Inc.	Mr. Ahmad Tawil	(A)
Cisco Systems Inc	Mr. Mark Allen	(P AV)
Status Key: P - Principal		
A - Alternate		
AV - Advisory (non-voting)		
E - Emeritus		
L - Liaison (non-voting; usually a member of another standards group)		
V - Visitor		
XO - Ex Officio (non-voting; several INCITS officers are Ex Officio members of T10)		

Organization	Name	Status
Dell Inc.	Mr. James Giannoules	(P)
Dell Inc.	Mr. David Black	(A)
Dell Inc.	Mr. George Ericson	(A)
Dell Inc.	Mr. Kevin Marks	(A)
Dell Inc.	Mr. Marlon Ramroopsingh	(A)
Foxconn Electronics	Mr. Jon Jacoby	(P)
Foxconn Electronics	Mr. Jason Chou	(A)
Foxconn Electronics	Mr. Gary Hsieh	(A)
Foxconn Electronics	Mr. Feng Pan	(A)
Foxconn Electronics	Mr. Miller Zhao	(A)
Google	Mr. Thieu Le	(A AV)
Google	Ms. Radha Ramachandran	(P AV)
Google	Mr. Bart Van Assche	(A AV)
Ham	Dr. William Ham	(E)
Hewlett Packard Enterprise	Mr. Curtis Ballard	(P)
Hewlett Packard Enterprise	Mr. Chris Cheng	(A)
Hewlett Packard Enterprise	Mr. Rob Elliott	(A)
Hewlett Packard Enterprise	Mr. Jeff Wolford	(A)
IBM Corporation	Mr. Kevin Butt	(P)
IBM Corporation	Mr. Mike Osborne	(A)
INCITS Secretariat	Ms. Lynn Barra	(XO)
INCITS Secretariat	Ms. Barbara Bennett	(XO)
INCITS Secretariat	Ms. Rachel Porter	(XO)
INCITS Secretariat	Ms. Deborah Spittle	(XO)
Keysight Technologies Inc	Mr. Vincent Yew	(P)
Kioxia	Mr. John Geldman	(P)
Kioxia	Mr. James Borden	(A)

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Organization	Name	Status
Kioxia	Mr. Cameron Brett	(A)
Kioxia	Mr. Don Harwood	(A)
Kioxia	Mr. Takekazu Kawada	(A)
Kioxia	Mr. Frederick Knight	(A)
Kioxia	Mr. Koichi Nagai	(A)
Kioxia	Mr. Paul Suhler	(A)
Kioxia	Mr. Tatsuya Tanaka	(A)
Kioxia	Mr. Bruno Trematore	(A)
Kioxia	Mr. Ayako Tsuji	(A)
Lohmeyer Consulting	Mr. John Lohmeyer	(E)
Marvell Semiconductor Inc	Mr. Phil Colline	(P AV)
Marvell Semiconductor Inc	Mr. Ke Du	(A AV)
Marvell Semiconductor Inc	Mr. James Walch	(A AV)
Marvell Semiconductor Inc	Mr. Wei Zhou	(A AV)
Meta Platforms, Inc.	Mr. Ross Stenfort	(P AV)
Microchip	Mr. Ariel Sibley	(A AV)
Microchip	Mr. Tim Symons	(P AV)
Microchip	Mr. Jeremiah Tussey	(A AV)
Micron Technology Inc	Mr. Christian Gyllenskog	(P)
Molex Inc	Mr. Scott Sommers	(P)
Molex Inc	Mr. Egide Murisa	(A)
Molex Inc	Mr. Darian Schulz	(A)
NetApp Inc	Mr. Chris Fore	(A AV)
NetApp Inc	Mr. Sriram Popuri	(P AV)
Oracle	Mr. Jon Allen	(A AV)
Oracle	Mr. Hyon Kim	(A AV)
Oracle	Mr. Martin Petersen	(P AV)
Oracle	Mr. Ioannis Psyllas	(A AV)

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Organization	Name	Status
Oracle	Mr. Lee Wan-Hui	(A AV)
QNAP Systems Inc	Mr. Ming-chih Chang	(P AV)
QNAP Systems Inc	Mr. CH Yang	(A AV)
Samsung Semiconductor Inc (SSI)	Mr. William Martin	(P)
Samsung Semiconductor Inc (SSI)	Mr. Michael Allison	(A)
Samsung Semiconductor Inc (SSI)	Ms. Judy Brock	(A)
Samsung Semiconductor Inc (SSI)	Mr. HeeChang Cho	(A)
Samsung Semiconductor Inc (SSI)	Ms. Mikyeong Kang	(A)
Samsung Semiconductor Inc (SSI)	Mr. Sung Lee	(A)
Samsung Semiconductor Inc (SSI)	Mr. Bhavith M.P.	(A)
Seagate Technology	Mr. Curtis Stevens	(P)
Seagate Technology	Mr. Jeff Boutiette	(A)
Seagate Technology	Mr. Ian Davies	(A)
Seagate Technology	Mr. John Fleming	(A)
Seagate Technology	Mr. Anil Keste	(A)
Seagate Technology	Mr. Joel Schipper	(A)
Seagate Technology	Mr. Victor Taberski	(A)
Silicon Motion Inc	Mr. Edward Hsieh	(A AV)
Silicon Motion Inc	Mr. Randy Hsu	(A AV)
Silicon Motion Inc	Mr. Sky Hsu	(A AV)
Silicon Motion Inc	Ms. Amanda Huang	(P AV)
SK Hynix Memory Solutions	Mr. Taeho Lee	(P AV)
SK Hynix Memory Solutions	Mr. Myron Loewen	(A AV)
SK Hynix Memory Solutions	Mr. Jungki Noh	(A AV)
SK Hynix Memory Solutions	Mr. Junho Son	(A AV)
Socionext	Mr. Toru Iwata	(A AV)
Socionext	Mr. Hideyuki Kabuo	(A AV)
Socionext	Mr. Hiroo Yamamoto	(P AV)
TE Connectivity	Mr. Dan Gorenc	(P)

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Organization	Name	Status
TE Connectivity	Mr. Tom Grzysiewicz	(A)
TE Connectivity	Mr. Kyle Klinger	(A)
TE Connectivity	Mr. Jeffery Mason	(A)
TE Connectivity	Mr. Joel Meyers	(A)
TE Connectivity	Mr. Yasuo Sasaki	(A)
TE Connectivity	Mr. Nathan Tracy	(A)
Teledyne LeCroy Corporation	Mr. Amit Bakshi	(P AV)
Teledyne LeCroy Corporation	Mr. Douglas Lee	(A AV)
Teledyne LeCroy Corporation	Mr. Mike Micheletti	(A AV)
Teledyne LeCroy Corporation	Mr. Rakesh Kathiresan Natarajanm	(A AV)
Toshiba America Electronic Components	Mr. Patrick Hery	(P)
Toshiba America Electronic Components	Dr. Don Harwood	(A)
Toshiba America Electronic Components	Ms. Johanna Hernandez	(A)
UNISYS Corporation	Mr. Jeffrey Dremann	(P AV)
UNISYS Corporation	Mr. Phil Shelton	(A AV)
Western Digital Corporation	Mr. Ralph Weber	(P)
Western Digital Corporation	Mr. William Boyle	(A)
Western Digital Corporation	Dr. Jorge Campello	(A)
Western Digital Corporation	Mr. Dave Landsman	(A)
Western Digital Corporation	Dr. Damien Le Moal	(A)
Western Digital Corporation	Mr. Nadesan Narenthiran	(A)
Western Digital Corporation	Mr. Rotem Sela	(A)
Western Digital Corporation	Mr. Yoni Shternhell	(A)

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