

# IEEE P802.3dj 200 Gb/s, 400 Gb/s, 800 Gb/s, and 1.6 Tb/s Ethernet Task Force

Approved Meeting Minutes, prepared by John D'Ambrosia, Mark Nowell, Gary Nicholl, and Kent Lusted

## 15 July 2024

July 2024 Plenary

Location: Montreal, QC, Canada

IEEE P802.3dj Task Force July 2024 Meeting Task Force Page - [https://www.ieee802.org/3/dj/public/24\\_07/index.html](https://www.ieee802.org/3/dj/public/24_07/index.html)

Session called to order at 1:15 p.m. Eastern Daylight Savings Time (all times EDT) by John D'Ambrosia, Chair of the P802.3dj Task Force.

Chair reminded participants to declare their name and affiliation in the online meeting tool. Failure to declare would result in expulsion from the meeting.

### Agenda:

Title	<b>Agenda and General Information</b>
Presenters	John D'Ambrosia
URL	<a href="https://www.ieee802.org/3/dj/public/24_07/agenda_3dj_a_2407.pdf">https://www.ieee802.org/3/dj/public/24_07/agenda_3dj_a_2407.pdf</a>

Chair welcomed everyone to the meeting.

Chair noted that the agenda would be updated to start the optical track at 8:30 a.m. eastern.

Chair noted that every attendee at any IEEE 802 plenary meeting (Face-to-Face or Remote) must register and pay a fee to participate. (see slide #2 of agenda)

Chair reminded participants to sign into IMAT for Task Force and IEEE 802.3 Working Group attendance.

Chair reviewed the agenda (Slide #3). Chair noted that individuals should check the webpage for the latest version of each presentation. Chair noted that all of the presentation times were subject to change.

Chair asked if there were any objections to the agenda. There were none. The agenda was considered approved by unanimous consent.

Chair noted that there were several Task Force and ad hoc meeting minutes to approve (see slide #4)

- IEEE P802.3dj Task Force
  - Jun Electronic Interim -  
[https://www.ieee802.org/3/dj/public/24\\_06/minutes\\_3dj\\_2406\\_unapproved.pdf](https://www.ieee802.org/3/dj/public/24_06/minutes_3dj_2406_unapproved.pdf)
- Electrical Ad hoc
  - 20 Jun -  
[https://www.ieee802.org/3/dj/public/adhoc/electrical/24\\_0620/minutes\\_3dj\\_elec\\_240620\\_unapproved.pdf](https://www.ieee802.org/3/dj/public/adhoc/electrical/24_0620/minutes_3dj_elec_240620_unapproved.pdf)
- Optics / Logic Joint Ad hoc
  - 27 Jun -  
[https://www.ieee802.org/3/dj/public/adhoc/optics/0624\\_OPTX/minutes\\_3dj\\_optx\\_240627\\_unapproved.pdf](https://www.ieee802.org/3/dj/public/adhoc/optics/0624_OPTX/minutes_3dj_optx_240627_unapproved.pdf)

- COM Ad hoc
  - 18 Jun - [https://www.ieee802.org/3/dj/public/adhoc/COM/24\\_0618/minutes\\_3dj\\_COM\\_240618\\_unapproved.pdf](https://www.ieee802.org/3/dj/public/adhoc/COM/24_0618/minutes_3dj_COM_240618_unapproved.pdf)
  - 25 Jun - [https://www.ieee802.org/3/dj/public/adhoc/COM/24\\_0625/minutes\\_3dj\\_COM\\_240625\\_unapproved.pdf](https://www.ieee802.org/3/dj/public/adhoc/COM/24_0625/minutes_3dj_COM_240625_unapproved.pdf)
  - 2 Jul - [https://www.ieee802.org/3/dj/public/adhoc/COM/24\\_0702/minutes\\_3dj\\_COM\\_240702\\_unapproved.pdf](https://www.ieee802.org/3/dj/public/adhoc/COM/24_0702/minutes_3dj_COM_240702_unapproved.pdf)

Chair asked if there were any corrections or modifications to the posted minutes. No one responded. Chair asked if there were any objections to approving the minutes. There were none, and the minutes were considered approved by unanimous consent.

Chair reviewed the meeting map for the week. (See slide #5) He reviewed the details to find the track meetings' call information. He noted that all of the call information was available on the IEEE Call and Meeting calendar.

Chair reviewed meeting decorum. (See Slide #6) Chair asked if there were any members of the press present. No one responded.

Chair reviewed attendance. (See Slide #7) Chair noted that Task Force meeting attendance would be through the IEEE Meeting Attendance (IMAT).

#### **IMAT Reminder**

Reminder - As announced by the 802.3 WG Chair during the March 2024 IEEE 802.3 Plenary session, in the future IMAT will be configured to use four 'meeting slots' per day for both interims and plenaries

[https://iee802.org/3/minutes/mar24/0324\\_802\\_3\\_opening\\_plenary.pdf#page=41](https://iee802.org/3/minutes/mar24/0324_802_3_opening_plenary.pdf#page=41)

Chair reviewed the Task Force Project Information / Organization for the P802.3dj Task Forces. (See Slides #8).

Chair reviewed the goals for the session (see slide #9):

- Big Ticket Items
- Continue work towards a technically complete document
- Respond to Liaisons

Chair requested that Track chairs review their track's respective Bit Ticket Items.

Gary Nicholl presented the big ticket items for the Logic Track (See Slide #10).

Kent Lusted presented the big ticket items for the Electrical Track (See Slide #11).

Mark Nowell presented the big ticket items for the Optical Track (See Slide #12).

Chair reviewed ground rules. (See Slide #13)

Chair reviewed the current state of the Task Force. (See Slide #14)

Chair reviewed voting in the task force. (see slide #15) Chair noted that the straw polls would use the online Zoom tool. Motions would be taken with the Direct Vote Live tool if there was not unanimous consent. Chair noted that he reserved the right to take informative straw polls by 802.3 WG voting membership.

Chair noted that he delegated the right to take straw polls by IEEE 802.3 voters as needed during the tracks to the respective track chairs.

Slide #16 - Chair reminded Task Force of responsibilities to remain an 802.3 Voting member.

Slide #17 - Chair noted that the information regarding the IEEE SA Policies had been sent out via the Task Force reflector , and requested that individuals review the following IEEE SA policies prior to the interim meeting –

- IEEE SA Patent policy
- IEEE SA Copyright Policy
- IEEE SA Participation Policy and IEEE Code of Ethics

Chair asked if anyone needed to review the policies at that time – there were no requests to do so from in-person nor remote attendees.

Chair presented the third slide (See Slide #41) of the IEEE SA Patent Policy slides. Chair did call for Potentially Essential Patents, and no one came forward.

Chair presented the second slide (See Slide #46) of the IEEE SA Copyright Policy slides. Chair noted – “By participating in this activity, you agree to comply with the IEEE Code of Ethics, all applicable laws, and all IEEE policies and procedures including, but not limited to, the IEEE SA Copyright Policy.”

Chair reminded participants of the IEEE Code of Ethics and Conduct. (See slide #49) He noted “All participants in IEEE-SA activities are expected to adhere to the core principles underlying the IEEE Code of Ethics and IEEE Code of Conduct”.

Chair presented the second slide (See Slide #50) of the IEEE SA Participation Policy slides. Chair noted – “Participants in the IEEE-SA “individual process” shall act independently of others, including employers. By participating in standards activities using the “individual process”, you are deemed to accept these requirements; if you are unable to satisfy these requirements then you shall immediately cease any participation.”

Chair reviewed the list of liaisons assigned to the Task Force. He noted that two new liaison letters from the ITU-T were assigned to the Task Force during the opening plenary. One on the topic of G.652 fiber. (see: [https://www.ieee802.org/3/minutes/jul24/incoming/SG15-LS121\\_Redacted.pdf](https://www.ieee802.org/3/minutes/jul24/incoming/SG15-LS121_Redacted.pdf) and [https://www.ieee802.org/3/private/liaison\\_docs/itu/Att1-TD375R2-PLEN.pdf](https://www.ieee802.org/3/private/liaison_docs/itu/Att1-TD375R2-PLEN.pdf) and [https://www.ieee802.org/3/private/liaison\\_docs/itu/Att2-TD194-WP2.pdf](https://www.ieee802.org/3/private/liaison_docs/itu/Att2-TD194-WP2.pdf) ) One on the topic of EVM (see: [https://www.ieee802.org/3/minutes/jul24/incoming/SG15-LS125\\_Redacted.pdf](https://www.ieee802.org/3/minutes/jul24/incoming/SG15-LS125_Redacted.pdf) and [https://www.ieee802.org/3/private/liaison\\_docs/itu/Att-TD214-WP2.pdf](https://www.ieee802.org/3/private/liaison_docs/itu/Att-TD214-WP2.pdf) )

### **IMAT Reminder**

1:51 p.m. Chair asked participants to sign into IMAT. He paused for a minute to let attendees sign for attendance. He asked if there was anyone having a problem signing into IMAT and recording attendance. No one responded.

Chair provided the information to access the P802.3dj Task Force private area. The drafts are posted for participant review only. He noted that the draft, and any other content, was posted for participant review only and neither the content nor access information should be copied or redistributed to others in violation of document copyrights.

Chair reminded participants that all contributions must be submitted with the PDF document properties properly completed. If the properties are not correct, the contribution would be returned.

Chair reminded participants to complete all of the requested information when submitting requests for presentation.

Chair asked participants to send straw poll requests to him, the Vice-Chair and the recording secretary.

**Presentation #TF-1:**

Title	<b>COM Reference Update v4.6 – July 2024</b>
Presenters	Kent Lusted, Rich Mellitz
URL	<a href="https://www.ieee802.org/3/dj/public/24_07/lusted_3dj_05_2407.pdf">https://www.ieee802.org/3/dj/public/24_07/lusted_3dj_05_2407.pdf</a>

Questions were asked and answered.

**Presentation #TF-2:**

Title	<b>MLSE Sequence Truncation Implementation Penalty</b>
Presenters	Hossein Shakiba
URL	<a href="https://www.ieee802.org/3/dj/public/24_07/shakiba_3dj_01a_2407.pdf">https://www.ieee802.org/3/dj/public/24_07/shakiba_3dj_01a_2407.pdf</a>

Questions were asked and answered.

Prior to the start of presentation TF-3, the author noted an updated version '01a' with editorial changes.

**Presentation #TF-3:**

Title	<b>Modification to the calculation of COM for an MLS D reference receiver</b>
Presenters	Adam Healey
URL	<a href="https://www.ieee802.org/3/dj/public/24_07/healey_3dj_01a_2407.pdf">https://www.ieee802.org/3/dj/public/24_07/healey_3dj_01a_2407.pdf</a>

Questions were asked and answered.

**Break**

Break at 3:00 p.m. Resumed at 3:33 p.m.

Prior to the start of presentation #TF-4, the author noted an updated version '02a' with editorial changes and new technical information. Chair asked if there was opposition to hearing the updated contribution. No one responded.

**Presentation #TF-4:**

Title	<b>Comparison of different options to account for - ADC Quantization Noise and -MLSE Implementation Penalty</b>
Presenters	Upen Reddy Kareti
URL	<a href="https://www.ieee802.org/3/dj/public/24_07/kareti_3dj_02a_2407.pdf">https://www.ieee802.org/3/dj/public/24_07/kareti_3dj_02a_2407.pdf</a>

Questions were asked and answered.

### IMAT Reminder

4:00 p.m. Chair asked participants to sign into IMAT. He paused for a minute to let attendees sign for attendance. He asked if there was anyone having a problem signing into IMAT and recording attendance. No one responded.

Prior to the start of presentation #TF-5, the author noted an updated version '02a' with new technical information. Chair asked if there was opposition to hearing the updated contribution. No one responded.

### Presentation #TF-5:

Title	<b>An Updated 212.5 Gbps PAM4 Link Simulations and Analyses for KR and CR Channels Using COM 4.60 Beta4</b>
Presenters	Mike Li
URL	<a href="https://www.ieee802.org/3/dj/public/24_07/lim_3dj_02a_2407.pdf">https://www.ieee802.org/3/dj/public/24_07/lim_3dj_02a_2407.pdf</a>

Questions were asked and answered.

### Presentation #TF-6:

Title	<b>200Gbps/Lane CR &amp; KR Channel Selection Criteria for Reference RX Analysis</b>
Presenters	Tobey P.-R. Li
URL	<a href="https://www.ieee802.org/3/dj/public/24_07/lit_3dj_01a_2407.pdf">https://www.ieee802.org/3/dj/public/24_07/lit_3dj_01a_2407.pdf</a>

Author noted that there was an error on the COM configuration data on slide 5 and would provide an updated version '01a'.

Questions were asked and answered.

Prior to the start of presentation #TF-7, the author noted an updated version '01a' with editorial updates. Chair asked if there was opposition to hearing the updated contribution. No one responded.

### Presentation #TF-7:

Title	<b>224G - CR/KR Channel Analysis</b>
Presenters	Upen Reddy Kareti
URL	<a href="https://www.ieee802.org/3/dj/public/24_07/kareti_3dj_01a_2407.pdf">https://www.ieee802.org/3/dj/public/24_07/kareti_3dj_01a_2407.pdf</a>

Questions were asked and answered.

Chair reminded participants that the Tuesday task force room would be operating in track mode. Kent Lusted would be chairing the electrical track. Mark Nowell and Gary Nicholl would be chairing the optical and logistic track. The meeting teleconference coordinates were posted to the IEEE 802.3 Call and Meeting calendar. (see: <https://www.ieee802.org/3/calendar.html> )

Chair noted that the optical and logic track would begin at 8:30 a.m. on Tuesday.

Mark Nowell noted that the agenda order for the logic and optical track may be adjusted due to presenter availability. He noted that he received a late presentation request on the dispersion topic.

John D'Ambrosia reminded participants that he delegated the decision to take Straw Polls by IEEE 802.3 voters only.

Meeting recessed for the day at 5:21 p.m.

## 16 July 2024 - Electrical track

Track called to order at 8:35 a.m. Eastern Daylight Savings Time (all times EDT) by Kent Lusted, Electrical Track Chair of the P802.3dj Task Force.

Track Chair reminded participants to declare their affiliation in the online meeting tool. Failure to declare affiliation would result in expulsion from the meeting.

Track Chair made opening comments and reviewed the plans for the day.

Chair reviewed meeting decorum. (See Slide #6 of the agenda) Chair asked if there were any members of the press present. No one responded.

### IMAT Reminder

Track Chair reminded participants to sign into IMAT for attendance recording.

Chair reminded participants of the IEEE Code of Ethics and Conduct. (See slide #47 of the agenda) He noted “All participants in IEEE-SA activities are expected to adhere to the core principles underlying the IEEE Code of Ethics and IEEE Code of Conduct”.

### Presentation #E-1:

Title	<b>Host PCB model parameters</b>
Presenters	Adee Ran
URL	<a href="https://www.ieee802.org/3/dj/public/24_07/ran_3dj_01b_2407.pdf">https://www.ieee802.org/3/dj/public/24_07/ran_3dj_01b_2407.pdf</a>

Author noted an error on the summary slide and would provide an updated version ‘01b’.

Questions were asked and answered.

### IMAT Reminder

9:32 a.m. Chair asked participants to sign into IMAT. He paused for a minute to let attendees sign for attendance. He asked if there was anyone having a problem signing into IMAT and recording attendance. No one responded.

Prior to the start of presentation #E-2, the author noted an updated version ‘01a’ with additional supporters.

### Presentation #E-2:

Title	<b>Steps Towards CR Compliance Methodology</b>
Presenters	Sam Kocsis
URL	<a href="https://www.ieee802.org/3/dj/public/24_07/kocsis_3dj_01a_2407.pdf">https://www.ieee802.org/3/dj/public/24_07/kocsis_3dj_01a_2407.pdf</a>

Questions were asked and answered.

### Break

Break at 10:06 a.m. Resumed at 10:39 a.m.

### Presentation #E-3:

Title	<b>AUI C2C COM Tap Weight Analysis &amp; Recommendations</b>
Presenters	Howard Heck
URL	<a href="https://www.ieee802.org/3/dj/public/24_07/heck_3dj_01a_2407.pdf">https://www.ieee802.org/3/dj/public/24_07/heck_3dj_01a_2407.pdf</a>

There were several errors on slide 13 and the author would provide an updated 01a. There was a request to update slide 19 with the COM values used in the analysis.

Questions were asked and answered.

### IMAT Reminder

11:24 a.m. Chair asked participants to sign into IMAT. He paused for a minute to let attendees sign for attendance. He asked if there was anyone having a problem signing into IMAT and recording attendance. No one responded.

### Presentation #E-4:

Title	<b>224G C2M MTF Measured Data</b>
Presenters	Steve Sekel
URL	<a href="https://www.ieee802.org/3/dj/public/24_07/sekel_3dj_01_2407.pdf">https://www.ieee802.org/3/dj/public/24_07/sekel_3dj_01_2407.pdf</a>

Chair noted that the author provided support channel data on the meeting website. see:

[https://www.ieee802.org/3/dj/public/24\\_07/sekel\\_3dj\\_02\\_2407.zip](https://www.ieee802.org/3/dj/public/24_07/sekel_3dj_02_2407.zip)

Questions were asked and answered.

Track Chair reviewed the schedule. He asked if there was objection to swapping the order of the two contributions from John Calvin to better fit the available time before lunch break. No one responded. Chair swapped the order and indicated that he would manage the Q&A queue to end by 12:15 p.m.

### Presentation #E-5:

Title	<b>1.6Tbps Vertical Eye Closure associated with high loss AUI-C2M channel conditions</b>
Presenters	John Calvin
URL	<a href="https://www.ieee802.org/3/dj/public/24_07/calvin_3dj_02a_2407.pdf">https://www.ieee802.org/3/dj/public/24_07/calvin_3dj_02a_2407.pdf</a>

Author noted an error on slide 3 and would provide an updated version '02a'.

Questions were asked and answered.

### Break

Break at 12:16 p.m. Resumed at 1:33 p.m.

### Presentation #E-6:

Title	<b>1.6Tbps output jitter decomposition associated with high loss AUI-C2M channel conditions</b>
Presenters	John Calvin
URL	<a href="https://www.ieee802.org/3/dj/public/24_07/calvin_3dj_01b_2407.pdf">https://www.ieee802.org/3/dj/public/24_07/calvin_3dj_01b_2407.pdf</a>

Questions were asked and answered.



Track Chair reminded participants to declare their affiliation in the online meeting tool. Failure to declare affiliation would result in expulsion from the meeting.

**IMAT Reminder**

2:23 p.m. Chair asked participants to sign into IMAT. He paused for a minute to let attendees sign for attendance. He asked if there was anyone having a problem signing into IMAT and recording attendance. No one responded.

Prior to the start of presentation #E-7, the author noted an updated version '01a' with editorial changes for typos.

**Presentation #E-7:**

Title	<b>Transmitter Jitter specifications for CL178</b>
Presenters	Alex Rysin
URL	<a href="https://www.ieee802.org/3/dj/public/24_07/rysin_3dj_01a_2407.pdf">https://www.ieee802.org/3/dj/public/24_07/rysin_3dj_01a_2407.pdf</a>

Questions were asked and answered.

**Presentation #E-8:**

Title	<b>ANNEX 179A TBDs Insertion Loss Parameters D1.1</b>
Presenters	Chris Diminico
URL	<a href="https://www.ieee802.org/3/dj/public/24_07/diminico_3dj_01a_2407.pdf">https://www.ieee802.org/3/dj/public/24_07/diminico_3dj_01a_2407.pdf</a>

Questions were asked and answered.

**Break**

Break at 2:59 p.m. Resumed at 3:54 p.m.

Track Chair noted that he was working to prepare a draft response to the OIF liaison on the CEI-224G-LR topic for consideration by the Task Force. It would be reviewed in the Task Force meeting later in the week.

Howard Heck reviewed the revised contribution "AUI C2C COM Tap Weight Analysis & Recommendations" version 01a with the changes captured from the morning presentation.

**IMAT Reminder**

4:13 p.m. Chair asked participants to sign into IMAT. He paused for a minute to let attendees sign for attendance. He asked if there was anyone having a problem signing into IMAT and recording attendance. No one responded.

**Straw Poll #E-1:**

I would support using the COM receiver discrete-time equalizer with MLSD (Annex 178A.1.11) as the reference receiver for 200 Gbps/lane CR and KR PHYs  
(choose one)

Results (all): Y: 38, N: 10 , A: 9

**Straw Poll #E-2:**

I would support the direction of modifying the calculation of COM for an MLSD reference receiver to add a method of receiver impairments per healey\_3dj\_01a\_2407

(choose one)

Results (all): Y: 36, , N: 7, A: 15

**Straw Poll #E-3:**

When approximating the impact of pre-MLSD receiver impairments in the COM calculation, I prefer the approach of:

Option A: scale the receiver noise (e.g. healey\_3dj\_01a\_2407, slide 4)

Option B: define a MLSD implementation allowance Q that is a function of COM\_DFE (e.g. healey\_3dj\_01a\_2407, slide 6)

Option C: Need more information

Option D: Abstain

Results (all): A: 15, , B: 0, , C: 28, , D: 10

**Presentation #E-9:**

Title	<b>AUI C2C COM Tap Weight Analysis &amp; Recommendations</b>
Presenters	Howard Heck
URL	<a href="https://www.ieee802.org/3/dj/public/24_07/heck_3dj_01a_2407.pdf">https://www.ieee802.org/3/dj/public/24_07/heck_3dj_01a_2407.pdf</a>

Questions were asked and answered.

**Straw Poll #E-4:**

I would support the proposed COM parameter values per heck\_3dj\_01a\_2407, slide 13

And with editor note: “The RX FFE tap values limits were chosen based upon no reliance upon the TX FFE taps. Further work is required to determine how the equalization effect is distributed between the RX FFE and the TX FFE taps to account for some reasonable implementation choices.”

(choose one)

Results (all): Y: 27, , N: 7, A: 14

Track Chair noted that the in-person attendees had a hard stop at 6:00 p.m. There would be no more straw polls for the day.

Track Chair reminded participants of the 8:00 a.m. start on Wednesday morning. He noted that it would return to an all Task Force meeting (no tracks) on Wednesday and Thursday.

Meeting recessed for the day at 5:48 p.m.

## 16 July 2024 - Optical/Logic track

Track called to order at 08:29a.m. Eastern Daylight Savings Time (all times EDT) by Mark Nowell, Optical Track Chair of the P802.3dj Task Force.

Track Chair reminded participants to declare their affiliation in the online meeting tool. Failure to declare affiliation would result in expulsion from the meeting.

The Track Chair made opening comments and reviewed the plans for the day.

Chair reviewed meeting decorum. (See Slide #4 of the agenda). The Chair asked if there were any members of the press present. No one responded.

Chair reminded participants of the IEEE Code of Ethics and Conduct. (See slide #47 of the agenda). He noted "All participants in IEEE-SA activities are expected to adhere to the core principles underlying the IEEE Code of Ethics and IEEE Code of Conduct".

### IMAT Reminder

Track Chair reminded participants to sign into IMAT for attendance recording.

### Presentation #OL-1:

Title	<b>TimeSync clarifications for 802.3dj PHYs</b>
Presenters	Andras de Koos
URL	<a href="https://www.ieee802.org/3/dj/public/24_07/dekoos_3dj_01a_2407.pdf">https://www.ieee802.org/3/dj/public/24_07/dekoos_3dj_01a_2407.pdf</a>

Questions were asked and answered.

### IMAT Reminder

09:15 a.m. Chair asked participants to sign into IMAT. He paused for a minute to let attendees sign for attendance. He asked if there was anyone having a problem signing into IMAT and recording attendance. No one responded.

Chair announced an overflow room was available for in-person attendees.

### Presentation #OL-2:

Title	<b>Deskew in 800GbE/1.6TbE for Inner FEC (CL177) updated</b>
Presenters	Mike Dudek
URL	<a href="https://www.ieee802.org/3/dj/public/24_07/dudek_3dj_01_2407.pdf">https://www.ieee802.org/3/dj/public/24_07/dudek_3dj_01_2407.pdf</a>

Questions were asked and answered.

### Presentation #OL-3:

Title	<b>Clause 184: Test Vectors for 800GBASE-LR1</b>
Presenters	Kishore Kota
URL	<a href="https://www.ieee802.org/3/dj/public/24_07/kota_3dj_01a_2407.pdf">https://www.ieee802.org/3/dj/public/24_07/kota_3dj_01a_2407.pdf</a>

Questions were asked and answered.

Chair requested that Xiang Liu review the liaison letter from ITU on TQM ([https://www.ieee802.org/3/minutes/jul24/incoming/SG15-LS125\\_Redacted.pdf](https://www.ieee802.org/3/minutes/jul24/incoming/SG15-LS125_Redacted.pdf) and [https://www.ieee802.org/3/private/liaison\\_docs/itu/Att-TD214-WP2.pdf](https://www.ieee802.org/3/private/liaison_docs/itu/Att-TD214-WP2.pdf))

The Chair thanked Xiang Liu for his efforts within ITU-T to expedite the sending of the liaison letter to IEEE 802.3. Questions were asked and answered.

### Break

Break at 10:03am. Resumed at 10:34.

### Presentation #OL-4:

Title	<b>Reference Receiver Design for Transmitter Constellation Closure (TCC) as a Transmitter Quality Metric (TQM) for coherent transmitters</b>
Presenters	Qirui Fan
URL	<a href="https://www.ieee802.org/3/dj/public/24_07/fan_3dj_02a_2407.pdf">https://www.ieee802.org/3/dj/public/24_07/fan_3dj_02a_2407.pdf</a>

Questions were asked and answered.

### Presentation #OL-5:

Title	<b>Thoughts on TQM Definition and Characterization Requirements for Coherent Short Reach Links</b>
Presenters	Aditya Kakkar
URL	<a href="https://www.ieee802.org/3/dj/public/24_07/kakkar_3dj_01_2407.pdf">https://www.ieee802.org/3/dj/public/24_07/kakkar_3dj_01_2407.pdf</a>

Questions were asked and answered.

### IMAT Reminder

11:19am. Chair asked participants to sign into IMAT. He paused for a minute to let attendees sign for attendance. He asked if there was anyone having a problem signing into IMAT and recording attendance. No one responded.

### Presentation #OL-6:

Title	<b>TQM Analysis and results for 800GBASE-LR1</b>
Presenters	Kishore Kota
URL	<a href="https://www.ieee802.org/3/dj/public/24_07/kota_3dj_02_2407.pdf">https://www.ieee802.org/3/dj/public/24_07/kota_3dj_02_2407.pdf</a>

Questions were asked and answered.

Chair announced that the overflow room for the afternoon would be “Salon 3” on level 2.

### Break

Break at 11:55am. Resumed at 1:33pm.

Chair announced that he received a request for a late presentation (#OL-7 below). Chair asked if there was any opposition to hearing the presentation. No one responded.

**Presentation #OL-7:**

Title	<b>Leveraging IEEE P802.3cw Specification Approach for IEEE P802.3dj</b>
Presenters	John D'Ambrosia
URL	<a href="https://www.ieee802.org/3/dj/public/24_07/dambrosia_3dj_01_2407.pdf">https://www.ieee802.org/3/dj/public/24_07/dambrosia_3dj_01_2407.pdf</a>

Questions were asked and answered.

Chair requested that Vince Ferretti review the liaison letter from ITU on Fiber Dispersion ([https://www.ieee802.org/3/minutes/jul24/incoming/SG15-LS121\\_Redacted.pdf](https://www.ieee802.org/3/minutes/jul24/incoming/SG15-LS121_Redacted.pdf), [https://www.ieee802.org/3/private/liaison\\_docs/itu/Att1-TD375R2-PLen.pdf](https://www.ieee802.org/3/private/liaison_docs/itu/Att1-TD375R2-PLen.pdf) and [https://www.ieee802.org/3/private/liaison\\_docs/itu/Att2-TD194-WP2.pdf](https://www.ieee802.org/3/private/liaison_docs/itu/Att2-TD194-WP2.pdf)) with reference to the following presentation from the Joint ITU/802 workshop held on July 13:

**Presentation #OL-8:**

Title	<b>A review of ITU-T SG15 Q5 July 2024 Liaison Response on Single Mode Fiber Properties and revised Appendix for ITU-T G.652</b>
Presenters	Vince Ferretti
URL	<a href="https://www.itu.int/en/ITU-T/Workshops-and-Seminars/2024/0713/Documents/Vince%20Ferretti%20and%20Kazuhide%20Nakajima.pdf">https://www.itu.int/en/ITU-T/Workshops-and-Seminars/2024/0713/Documents/Vince%20Ferretti%20and%20Kazuhide%20Nakajima.pdf</a>

Questions were asked and answered.

**Presentation #OL-9:**

Title	<b>Chromatic Dispersion Statistics of Different Data Sets</b>
Presenters	Earl Parsons
URL	<a href="https://www.ieee802.org/3/dj/public/24_07/parsons_3dj_01a_2407.pdf">https://www.ieee802.org/3/dj/public/24_07/parsons_3dj_01a_2407.pdf</a>

Questions were asked and answered.

**IMAT Reminder**

2:33pm. Chair asked participants to sign into IMAT. He paused for a minute to let attendees sign for attendance. He asked if there was anyone having a problem signing into IMAT and recording attendance. No one responded.

**resentation #OL-10:**

Title	<b>Baseline proposal for 800GBASE-FR4 chromatic dispersion specifications</b>
Presenters	John Johnson
URL	<a href="https://www.ieee802.org/3/dj/public/24_07/johnson_3dj_01a_2407.pdf">https://www.ieee802.org/3/dj/public/24_07/johnson_3dj_01a_2407.pdf</a>

Questions were asked and answered.

## Break

Break at 2:53 pm. Resumed at 3:30 pm.

### Presentation #OL-11:

Title	<b>Baseline proposal for 800GBASE-LR4 chromatic dispersion specifications</b>
Presenters	Roberto Rodes
URL	<a href="https://www.ieee802.org/3/dj/public/24_07/rodes_3dj_01a_2407.pdf">https://www.ieee802.org/3/dj/public/24_07/rodes_3dj_01a_2407.pdf</a>

Questions were asked and answered.

At the end of presentation #OL-11, the author noted an updated version '01a' with editorial updates

## IMAT Reminder

3:48 pm. Chair asked participants to sign into IMAT. He paused for a minute to let attendees sign for attendance.

### Presentation #OL-12:

Title	<b>800G-LR4 CD Specifications with Fiber Statistical Model Support</b>
Presenters	Ryan Yu
URL	<a href="https://www.ieee802.org/3/dj/public/24_07/you_3dj_02_2407.pdf">https://www.ieee802.org/3/dj/public/24_07/you_3dj_02_2407.pdf</a>

Questions were asked and answered.

Chair announced that he received a request for a late presentation (#OL-13). Chair asked if there was any opposition to hearing the presentation. No one responded.

### Presentation #OL-13:

Title	<b>Overview of proposals and options for cd ranges for 800GBASE-FR4 and 800GBASE-LR4</b>
Presenters	Peter Stassar
URL	<a href="https://www.ieee802.org/3/dj/public/24_07/stassar_3dj_01a_2407.pdf">https://www.ieee802.org/3/dj/public/24_07/stassar_3dj_01a_2407.pdf</a>

Questions were asked and answered.

The author noted he would provide an updated version 01a with corrected reference to rodes\_3dj\_01a\_2407.

## Straw Poll #O-1

I support a specification approach for 800GBASE-FR4 and 800GBASE-LR4 chromatic dispersion ranges by:

- referencing ITU-T Rec G.652 for fiber specs and the newly updated Appendix I for the CD values
- 800GBASE-FR4 cd range -11.26 to +6.02 ps/nm as proposed in johnson\_3dj\_01a\_2407
- 800GBASE-LR4 cd range -24.6 to +2.8 ps/nm as proposed in rodes\_3dj\_01a\_2407
- develop an Informative Annex to describe the background for these choices, explaining the statistical link design approach which factors in fiber, transceiver and length statistics

Results (all) Y: 50, N: 5, A: 15

**Presentation #OL-14:**

Title	<b>Additional optical specifications for 800GBASE-LR1 PMD</b>
Presenters	Kishore Kota
URL	<a href="https://www.ieee802.org/3/dj/public/24_07/kota_3dj_03a_2407.pdf">https://www.ieee802.org/3/dj/public/24_07/kota_3dj_03a_2407.pdf</a>

Questions were asked and answered.

John D'Ambrosia reminded participants that the Task Force would meet at 8am Wednesday.

Chair gave participants a final reminder to sign in for IMAT.

Meeting recessed for the day at 5:01 p.m.

## 17 July 2024 - Task Force

Meeting reconvened at 8:00 a.m. EDT.

Task Force Chair John D'Ambrosia made opening comments and reviewed the plans for the day. (see: [https://www.ieee802.org/3/dj/public/24\\_07/agenda\\_3dj\\_a\\_2407.pdf](https://www.ieee802.org/3/dj/public/24_07/agenda_3dj_a_2407.pdf) )

Vice Chair reminded participants to declare their affiliation in the online meeting tool. Failure to declare affiliation would result in expulsion from the meeting.

Chair noted that every attendee at the IEEE 802.3 interim meeting (Face-to-Face or Remote) must register and pay a fee to participate. (see slide #2 of agenda)

Chair reminded participants of the IEEE Code of Ethics and Conduct. (See slide #47) He noted "All participants in IEEE-SA activities are expected to adhere to the core principles underlying the IEEE Code of Ethics and IEEE Code of Conduct".

### IMAT Reminder

Reminder - As announced by the 802.3 WG Chair during the March 2024 IEEE 802.3 Plenary session, in the future IMAT will be configured to use four 'meeting slots' per day for both interims and plenaries  
[https://iee802.org/3/minutes/mar24/0324\\_802\\_3\\_opening\\_plenary.pdf#page=41](https://iee802.org/3/minutes/mar24/0324_802_3_opening_plenary.pdf#page=41)

Chair noted that an overflow room was available for in-person attendees.

Chair reminded in-person participants of the IEEE 802 plenary social on Wednesday evening.

Chair noted that there were straw polls on topics for discussion at the Task Force level.

Chair noted that all updated presentations received to date were posted to the Task Force website.

Kent Lusted, Electrical Track Chair, provided a summary of the Tuesday electrical track progress.

Mark Nowell, Optical Track Chair, provided a summary of the Tuesday logic and optics track progress.

Prior to the start of presentation #TF-8, author noted the presentation was updated to version '01a' with editorial changes and additional supporters.

### Presentation #TF-8:

Title	<b>Consideration on chromatic dispersion from telecom's realistic deployment of optical cables</b>
Presenters	Haojie Wang
URL	<a href="https://www.ieee802.org/3/dj/public/24_07/wang_3dj_01a_2407.pdf">https://www.ieee802.org/3/dj/public/24_07/wang_3dj_01a_2407.pdf</a>

Questions were asked and answered.

Prior to the start of presentation #TF-9, author noted the presentation was updated to version '02a' with editorial changes and additional supporters.



**Presentation #TF-9:**

Title	<b>Consideration on optical management for network maintenance</b>
Presenters	Weiqliang Cheng
URL	<a href="https://www.ieee802.org/3/dj/public/24_07/wang_3dj_02a_2407.pdf">https://www.ieee802.org/3/dj/public/24_07/wang_3dj_02a_2407.pdf</a>

Questions were asked and answered.

**IMAT Reminder**

9:05 a.m. Chair asked participants to sign into IMAT. He paused for a minute to let attendees sign for attendance. He asked if there was anyone having a problem signing into IMAT and recording attendance. There was one person that had an issue. It was resolved. No one else responded.

Prior to the start of presentation #TF-10, author noted the presentation was updated with new test data. Chair asked if there was objection to hearing the updated contribution. No one responded.

**Presentation #TF-10:**

Title	<b>Update on the impact of CD limits on RX sensitivity penalty and TDECQ measurements</b>
Presenters	Qirui Fan
URL	<a href="https://www.ieee802.org/3/dj/public/24_07/fan_3dj_01a_2407.pdf">https://www.ieee802.org/3/dj/public/24_07/fan_3dj_01a_2407.pdf</a>

Questions were asked and answered.

Prior to the start of presentation #TF-11, author noted the presentation was updated to version '01b' with additional supporters.

**Presentation #TF-11:**

Title	<b>800G (4x200GG-PAM4) Module Test Data with FECi and FECo</b>
Presenters	Rangchen Yu
URL	<a href="https://www.ieee802.org/3/dj/public/24_07/you_3dj_01b_2407.pdf">https://www.ieee802.org/3/dj/public/24_07/you_3dj_01b_2407.pdf</a>

Questions were asked and answered.

**Break**

Break at 9:50 a.m. Resumed at 10:21 a.m.

Prior to the start of presentation #TF-12, author noted the presentation was updated to version '01b' with editorial changes.

**Presentation #TF-12:**

Title	<b>Proposal to update the specification of 2km optical PMDs</b>
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Presenters	Guangcan Mi
URL	<a href="https://www.ieee802.org/3/dj/public/24_07/mi_3dj_01b_2407.pdf">https://www.ieee802.org/3/dj/public/24_07/mi_3dj_01b_2407.pdf</a>

Questions were asked and answered.

**Presentation #TF-13:**

Title	<b>Improving Reference Equalizer Tap Limits</b>
Presenters	Ali Ghiasi
URL	<a href="https://www.ieee802.org/3/dj/public/24_07/ghiasi_3dj_02a_2407.pdf">https://www.ieee802.org/3/dj/public/24_07/ghiasi_3dj_02a_2407.pdf</a>

Author noted a typo and would provide an updated version 02a.

Questions were asked and answered.

Chair reviewed the plans for the remainder. He noted that the liaisons would be handled at the end of the day and that the COM open source update was moved to Wednesday.

**IMAT Reminder**

11:31 a.m. Chair asked participants to sign into IMAT. He paused for a minute to let attendees sign for attendance. He asked if there was anyone having a problem signing into IMAT and recording attendance. No one responded.

**Presentation #TF-14:**

Title	<b>Noise Measurements: more details re. ad-hoc (RINxOMA, others)</b>
Presenters	Pavel Zivny
URL	<a href="https://www.ieee802.org/3/dj/public/24_07/zivny_3dj_01a_2407.pdf">https://www.ieee802.org/3/dj/public/24_07/zivny_3dj_01a_2407.pdf</a>

Questions were asked and answered.

Prior to the start of presentation #TF-15, author noted the presentation was updated to version '02a' with editorial changes to point to another contribution.

**Presentation #TF-15:**

Title	<b>Limiting output jitter in optical PMDs</b>
Presenters	Adee Ran
URL	<a href="https://www.ieee802.org/3/dj/public/24_07/ran_3dj_02a_2407.pdf">https://www.ieee802.org/3/dj/public/24_07/ran_3dj_02a_2407.pdf</a>

Questions were asked and answered.

**Break**

Break at 11:58 a.m. Resumed at 1:31 p.m.

### IMAT Reminder

1:32 p.m. Chair asked participants to sign into IMAT. He paused for a minute to let attendees sign for attendance. He asked if there was anyone having a problem signing into IMAT and recording attendance. No one responded.

### Presentation #TF-16:

Title	<b>Practical C2M Loss Limit</b>
Presenters	Ali Ghiasi
URL	<a href="https://www.ieee802.org/3/dj/public/24_07/ghiasi_3dj_02a_2407.pdf">https://www.ieee802.org/3/dj/public/24_07/ghiasi_3dj_02a_2407.pdf</a>

Author noted a typo on slide 10 and would provide an updated version '01a'.

Questions were asked and answered.

### Presentation #TF-17:

Title	<b>P802.3dj C2M Loss -- Starting Point</b>
Presenters	Kent Lusted
URL	<a href="https://www.ieee802.org/3/dj/public/24_07/lusted_3dj_04_2407.pdf">https://www.ieee802.org/3/dj/public/24_07/lusted_3dj_04_2407.pdf</a>

Questions were asked and answered.

### IMAT Reminder

2:30 p.m. Chair asked participants to sign into IMAT. He paused for a minute to let attendees sign for attendance. He asked if there was anyone having a problem signing into IMAT and recording attendance. No one responded.

Prior to the start of presentation #TF-18, author noted the presentation was updated to version '02a' with editorial changes.

### Presentation #TF-18:

Title	<b>An Updated P802.3dj COM Parameter Value Proposal for KR and CR</b>
Presenters	Mike Li
URL	<a href="https://www.ieee802.org/3/dj/public/24_07/lim_3dj_01a_2407.pdf">https://www.ieee802.org/3/dj/public/24_07/lim_3dj_01a_2407.pdf</a>

Questions were asked and answered.

Prior to the start of presentation #TF-19, author noted the presentation was updated to version '06b' with editorial changes.

**Presentation #TF-19:**

Title	<b>P802.3dj COM Parameter Values for CR/KR -- Starting Point</b>
Presenters	Kent Lusted
URL	<a href="https://www.ieee802.org/3/dj/public/24_07/lusted_3dj_06b_2407.pdf">https://www.ieee802.org/3/dj/public/24_07/lusted_3dj_06b_2407.pdf</a>

Howard Heck and Hossein Shakiba offered their support to the contribution and the author would send an updated version '06b'.

Questions were asked and answered.

**Break**

Break at 3:03 p.m. Resumed at 3:33 p.m.

Chair reviewed the plans for the rest of the day.

**Presentation #TF-20:**

Title	<b>Channel Operating Margin (COM) Code Pathway to Open Source – July Update</b>
Presenters	Kent Lusted
URL	<a href="https://www.ieee802.org/3/dj/public/24_07/lusted_3dj_08_2407.pdf">https://www.ieee802.org/3/dj/public/24_07/lusted_3dj_08_2407.pdf</a>

Questions were asked and answered.

**IMAT Reminder**

4:11 p.m. Chair asked participants to sign into IMAT. He paused for a minute to let attendees sign for attendance. He asked if there was anyone having a problem signing into IMAT and recording attendance. No one responded.

Task Force chair asked the track chairs to preview the straw polls for consideration by the task force on Thursday.

Chair noted that the straw polls would be used to measure consensus prior to the Task Force D1.1 review closure.

**Liaisons**

Gary Nicholl and Mark Nowell showed the proposed liaison communication from P802.3dj to the OIF on the coherent optic topic. He provided an overview of the letter. (See:

[https://www.ieee802.org/3/dj/public/24\\_07/nicholl\\_3dj\\_02\\_2407\\_Redacted.pdf](https://www.ieee802.org/3/dj/public/24_07/nicholl_3dj_02_2407_Redacted.pdf) )

Changes were made and saved to the filename to align with IEEE 802.3 conventions. (see:

[https://www.ieee802.org/3/dj/public/24\\_07/IEEE\\_802d3\\_to\\_OIF\\_3dj\\_2407\\_coherent\\_Redacted.pdf](https://www.ieee802.org/3/dj/public/24_07/IEEE_802d3_to_OIF_3dj_2407_coherent_Redacted.pdf) )

Kent Lusted showed the proposed liaison communication from P802.3dj to the OIF on the 224G-LR topic. He provided an overview of the letter. (see: [https://www.ieee802.org/3/dj/public/24\\_07/lusted\\_3dj\\_07\\_2407\\_Redacted.pdf](https://www.ieee802.org/3/dj/public/24_07/lusted_3dj_07_2407_Redacted.pdf) ) No changes were made except to the filename to align with IEEE 802.3 conventions. (see:

[https://www.ieee802.org/3/dj/public/24\\_07/IEEE\\_802d3\\_to\\_OIF\\_3dj\\_2407\\_CEI-224G\\_Redacted.pdf](https://www.ieee802.org/3/dj/public/24_07/IEEE_802d3_to_OIF_3dj_2407_CEI-224G_Redacted.pdf) )

<b>Motion #1:</b>	Move that the IEEE P802.3dj Task Forces approve: <ul style="list-style-type: none"> <li>• IEEE_802d3_to_OIF_3dj_2407_CEI-224G_redacted.pdf with editorial license granted to the Chair (or his appointed agent) as a liaison communication from the IEEE 802.3 Working Group to OIF.</li> <li>• IEEE_802d3_to_OIF_3dj_2407_coherent_redacted.pdf with editorial license granted to the Chair (or his appointed agent) as a liaison communication from the IEEE 802.3 Working Group to OIF.</li> </ul>
<b>Technical (&gt;= 75%)</b>	
<b>Moved by</b>	Tom Huber
<b>Second by</b>	Adee Ran
<b>Results 802.3 (y/n/a)</b>	Passed by unanimous consent. 4:44 p.m.

A set of straw polls were previewed but not discussed in the TF meeting. The text previewed would be sent to the Task Force email reflector.

Chair confirmed the 8:00 a.m. meeting start time on Thursday.

Chair reminded participants of the social event for in-person attendees.

Meeting recessed for the day at 4:49 p.m.

## 18 July 2024 - Task Force

Meeting reconvened at 8:06 a.m. EDT.

Chair made opening comments and reviewed the plans for the day. (see: [https://www.ieee802.org/3/dj/public/24\\_07/agenda\\_3dj\\_a\\_2407.pdf](https://www.ieee802.org/3/dj/public/24_07/agenda_3dj_a_2407.pdf) )

Vice Chair reminded participants to declare their affiliation in the online meeting tool. Failure to declare affiliation would result in expulsion from the meeting.

Chair noted that every attendee at the IEEE 802.3 interim meeting (Face-to-Face or Remote) must register and pay a fee to participate. (see slide #2 of agenda)

Chair reminded participants of the IEEE Code of Ethics and Conduct. (See slide #47) He noted “All participants in IEEE-SA activities are expected to adhere to the core principles underlying the IEEE Code of Ethics and IEEE Code of Conduct”.

### IMAT Reminder

Reminder - As announced by the 802.3 WG Chair during the March 2024 IEEE 802.3 Plenary session, in the future IMAT will be configured to use four 'meeting slots' per day for both interims and plenaries  
[https://ieee802.org/3/minutes/mar24/0324\\_802\\_3\\_opening\\_plenary.pdf#page=41](https://ieee802.org/3/minutes/mar24/0324_802_3_opening_plenary.pdf#page=41)

Chair reminded participants of the open D1.1 Task Force review.

Chair noted that the straw polls would be used to measure consensus prior to the Task Force D1.1 review closure.

Prior to Straw Poll #1, Mike Dudek reviewed dudek\_3dj\_01\_2407 on the topic of “deskew”.

### Straw Poll #TF-1:

I support addressing the de-skew issue for 800GbE/1.6TbE Inner FEC (Clause 177) identified in dudek\_3dj\_01\_2407  
Results (all): Y: 78, N: 1, A: 28

### Straw Poll #TF-2:

To address the de-skew issue for 800GbE/1.6TbE Inner FEC (Clause 177) identified in dudek\_3dj\_01\_2407, the de-skew function should be addressed in:

A: Within Clause 177 Inner FEC sublayer (option 2 in dudek\_3dj\_01\_2407)

B: Within Clause 176 SM-PMA sublayer (option 3 in dudek\_3dj\_01\_2407)

C: Need more information

(choose one)

Results (all): A: 59, B: 17, C: 21

During discussion of Straw Poll #TF-2, it was clarified that the solution was specific for 800GbE and 1.6TbE. Further work would be needed to address 200GbE and 400GbE.

### IMAT Reminder

8:51 a.m. Chair asked participants to sign into IMAT. He paused for a minute to let attendees sign for attendance. He asked if there was anyone having a problem signing into IMAT and recording attendance. No one responded.

**Straw Poll #TF-3:**

I would support putting the COM parameter values and the editors note for CR and KR (per lusted\_3dj\_06b\_2407, slides 6-7) into the P802.3dj draft specification

(choose one)

Results (all): Y: 73, N: 2, A: 20

**Straw Poll #TF-4:**

I would support putting the following COM parameter values for CR and KR into the P802.3dj draft specification:

- Number of floating tap groups (N\_g) = 2
- Number of taps per floating tap group (N\_f) = 4
- Highest allowed tap index (N\_max) = 80

(choose one)

Results (all): Y: 63, N: 4, NMI: 17, A: 19

Chair noted that Adee Ran prepared an updated version 01b that had the updated loss parameters added to the backup section.

**Straw Poll #TF-5:**

I would support the approach presented in ran\_3dj\_01b\_2407, of having a specific combination of package and PCB length per CR host class

A: Yes, with the original PCB parameters in the presentation (per ran\_3dj\_01b\_2407, slides 13-15)

B: Yes but with modified PCB parameters to create 1.1 dB/inch (per ran\_3dj\_01b\_2407, slides 23-25)

C: No

D: Abstain

(choose one)

Results (all): A: 8, B: 18, C: 25, D: 42

**Straw Poll #TF-6:**

For the CR host channel model, I would prefer the combination of package and PCB length as follows:

A: Shorter package trace and longer PCB trace, with CO = 0 (similar to option 1 in ran\_3dj\_01b\_2407)

B: Longer package trace and shorter PCB trace, with CO = 0 (similar to option 2 in ran\_3dj\_01b\_2407)

C: Shorter package trace and longer PCB trace, with CO != 0 (similar to option 3 in ran\_3dj\_01b\_2407)

D: Longer package trace and shorter PCB trace, with CO != 0 (similar to option 4 in ran\_3dj\_01b\_2407)

E: Abstain

(chicago rules)

Results(all): A: 14, B: 23, C: 26, D: 18, E: 59

**Straw Poll #TF-7:**

I would support putting the values in diminico\_3dj\_01a\_2407.pdf slide 7 for Annex 179A.5 TBDs of MTF and TP0d-TP2, TP3-TP5d.

Results(all): Y: 42, N: 16, A: 47

Chair asked if there were any other straw polls to consider. The track chairs indicated that there were no more straw polls.

Chair expressed a concern with the lack of consensus on the AUI C2M ILdd topic. He asked Kent Lusted to prepare a straw poll on the subject.

### Break

Break at 9:57 a.m. Resumed at 10:33 a.m.

### IMAT Reminder

10:33 a.m. Chair asked participants to sign into IMAT. He paused for a minute to let attendees sign for attendance. He asked if there was anyone having a problem signing into IMAT and recording attendance. Ahmed

### Presentation #TF-21:

Title	<b>IEEE P802.3dj Editorial Team Report</b>
Presenters	Matt Brown, Gary Nicholl, Tom Huber, Adee Ran
URL	<a href="https://www.ieee802.org/3/dj/public/24_07/brown_3dj_01_2407.pdf">https://www.ieee802.org/3/dj/public/24_07/brown_3dj_01_2407.pdf</a>

Questions were asked and answered.

Chair noted that there was feedback during break on the proposed straw poll on the “AUI C2M Loss” topic. He observed that there were different approaches to resolving the issue: top-down and bottoms-up. Chair noted that he would not proceed with the straw poll at the time. He assigned an agenda item to the next electrical ad hoc to resolve consensus on the AUI C2M loss topic.

### IMAT Reminder

11:25 a.m. Chair asked participants to sign into IMAT. He paused for a minute to let attendees sign for attendance. He asked if there was anyone having a problem signing into IMAT and recording attendance. No one responded.

Chair reviewed the future meetings (see slide #24 of the agenda). He reviewed the plan leading up to the September 2024 interim. He noted that there were pending changes to the comment resolution meeting dates based on the ECOC 2024 conference.

Kent Lusted noted that the correct date for the first electrical ad hoc meeting was 1 August 2024, not 30 July.

Chair reminded participants of the second Task Force review. The review closes on 9 August, 2025 11:59 p.m. AOE. The scope of the review remained open. (see: <https://www.ieee802.org/3/B400G/email/msg01205.html> )

There were questions about IEEE 802.3 Working Group membership and gaining membership.

Chair provided the access information to the Task Force private area.

Chair noted that the agenda is complete.

Meeting adjourned at 11:43 a.m.



## Attendees (per IMAT)

Note: the Task Force attendance records below capture individuals that registered their attendance via IMAT for one or more “slots” on the specified day.

### 15 July 2024

Name	Employer	Affiliation
Banas, David		Keysight
Bernier, Eric	Huawei Technologies Canada Co., Ltd.	Huawei Technologies Canada Co., Ltd.
Bois, Karl	NVIDIA Corporation	NVIDIA Corporation
Brooks, Paul	Viavi solutions GmbH	Viavi Solutions
Brown, Matthew	Alphawave	Alphawave
Bruckman, Leon	Huawei Technologies Co., Ltd	Nvidia
Calvin, John	Keysight Technologies	Keysight Technologies
Cassan, Dave	Alphawave	Alphawave
Chan Carusone, Anthony	Alphawave Semi	Alphawave Semi
Chen, Chan	Self Employed	Independent/AOI
cheng, weiqiang	China Mobile Limited	China Mobile Limited
Choudhury, Golam	OFS	OFS
Cox, Ian		Broadcom Corporation

Name	Employer	Affiliation
D'Ambrosia, John	Futurewei Technologies, U.S. Subsidiary of Huawei	Futurewei Technologies, U.S. Affiliate of Huawei
Dawe, Piers J G	NVIDIA	Nvidia
de Koos, Andras	Microchip Technology Inc	Microchip Technology Inc
Diminico, Christopher	M C Communications, LLC	Panduit Corp.
Dudek, Michael	Marvell	Marvell
El-Chayeb, Ahmad	Keysight Technologies Inc	Keysight Technologies Inc
Fan, Qirui		Huawei Technologies Co., Ltd
Feyh, German	Broadcom Corporation	Broadcom Corporation
Galan, Jose	MaxLinear, Inc.	MaxLinear, Inc.
Gao, Xiangrong	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
Gorshe, Steven Scott	Microchip Technology, Inc.	Microchip Technology, Inc.
Gui, Tao		Huawei Technologies Co., Ltd
Hajduczenia, Marek	Charter Communications	Charter Communications

Name	Employer	Affiliation
Han, Ruibo	China Mobile Communications Corporation (CMCC)	China Mobile Communications Corporation (CMCC)
Harshbarger, Douglas		Corning Incorporated
He, Xiang	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
Healey, Adam	Broadcom Inc.	Broadcom Inc.
Heck, Howard	Intel	Intel
Hidaka, Yasuo	Credo Semiconductor	Credo Semiconductor
Hiroaki, Kukita	Yamaichi Electronics	Yamaichi Electronics
Hirose, Takeshi	AGC Inc.	AGC Inc.
Ho, Matthew		TE Connectivity
Huang, Kechao	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
Huber, Thomas	Nokia	Nokia
HYAKUTAKE, YASUHIRO	Orbray Co., Ltd.	Orbray Co., Ltd.
Ingham, Jonathan	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
Isono, Hideki	Fujitsu Optical Components Limited	Fujitsu Optical Components Limited
Issenhuth, Tom	Issenhuth Consulting, LLC	Huawei Technologies Co., Ltd

<b>Name</b>	<b>Employer</b>	<b>Affiliation</b>
Kareti, Upen	Cisco Systems, Inc.	Cisco Systems, Inc.
Kim, Kihong/Joshua	Hirose Electric (USA), Inc.	Hirose Electric (USA), Inc.
Kimber, Eric	Semtech Ltd	Semtech Ltd
Kochuparambil, Elizabeth	Cisco Systems, Inc.	Cisco Systems, Inc.
Kocsis, Sam	Amphenol Corporation	Amphenol Corporation
Kondo, Taiji	MegaChips Corporation	Dexerials Corporation
Kota, Kishore	Marvell Semiconductor, Inc.	Marvell Semiconductor, Inc.
Krishnasamy, Kumaran	Broadcom Corporation	Broadcom Corporation
Lambert, Angela	Corning Incorporated	Corning Incorporated
Lawson, Matthew	Cisco Systems, Inc.	Cisco Systems, Inc.
Levin, Itamar		Intel Corporation
Li, Mike-Peng	Intel	Intel
Li, Pei-Rong	MediaTek Inc.	MediaTek Inc.
Lieder, Eyal	Marvell Semiconductor, Inc.	Marvell Semiconductor, Inc.
Little, Terrance	Foxconn Electronics Inc.	Foxconn Electronics Inc.

<b>Name</b>	<b>Employer</b>	<b>Affiliation</b>
Liu, Hai-Feng	HG Genuine	HG Genuine
Liu, Karen	Nubis Communications	Nubis Communications
LIU, XIANG		Huawei Technologies Co., Ltd
Lusted, Kent	Intel	Intel
Lyubomirsky, Ilya	Inphi Corporation	Astera Labs
Maki, Jeffery	Juniper Networks, Inc.	Juniper Networks, Inc.
Malicoat, David	Malicoat Networking Solutions	Malicoat Networking Solutions; SENKO Advanced Components
Marques, Flavio	FURUKAWA ELECTRIC	FURUKAWA ELECTRIC
Marris, Arthur	Cadence Design Systems, Inc.	Cadence Design Systems, Inc.
Mellitz, Richard	Samtec, Inc.	Samtec, Inc.
Mitcheltree, Tom	US Conec, Ltd.	US Conec, Ltd.
Moorwood, Charles	Keysight Technologies	Keysight Technologies
Mueller, Thomas	Rosenberger	Rosenberger
Muhigana, Ernest		Lumentum
Muller, Shimon	Enfabrica Corp.	Enfabrica

<b>Name</b>	<b>Employer</b>	<b>Affiliation</b>
MURAKAMI, YUKI	FUJITSU	FUJITSU LIMITED
Muth, Karlheinz	Broadcom Corporation	Broadcom Corporation
Nakamoto, Edward	Spirent Communications	Spirent Communications
Nicholl, Gary	Cisco Systems, Inc.	Cisco Systems, Inc.
Nicholl, Shawn	Advanced Micro Devices (AMD)	Advanced Micro Devices (AMD)
NIIHARA, YOSHIHIRO	Fujikura Ltd.	Fujikura Ltd.
Noujeim, Leesa	Google	Google
Nowell, Mark	Cisco Systems, Inc.	Cisco Systems, Inc.
Ofelt, David	Juniper Networks, Inc.	Juniper Networks, Inc.
OGAWA, SHOJI	Fujitsu Optical Components Limited	Fujitsu Optical Components Limited
Opsasnick, Eugene	Broadcom Inc.	Broadcom Inc.
Palkert, Thomas	Macom,&nbsp;Samtec	Samtec-Macom
PARK, CHUL SOO	Juniper Networks Inc.	Juniper Networks, Inc.
Parkholm, Ulf	Telefon AB LM Ericsson	Telefon AB LM Ericsson
Parsons, Earl	CommScope, Inc.	CommScope, Inc.

Name	Employer	Affiliation
Parthasarathy, Vasu	Broadcom Corporation	Broadcom Corporation
peng, semmy		Huawei Technologies Co., Ltd
Pepper, Gerald	Keysight Technologies	Keysight Technologies
Rabinovich, Rick	Keysight Technologies	Keysight Technologies
Ran, Adee	Cisco Systems, Inc.	Cisco Systems, Inc.
Rechtman, Zvi	NVIDIA	NVIDIA
Rodes, Roberto	II-VI	II-VI
Royer, Tyler		Senko Advanced Components
Rubin, Amir		NVIDIA
Rush, Joshua		UNH-IOL
Rysin, Alexander	NVIDIA	NVIDIA
Sakai, Toshiaki	Socionext Inc.	socionext
Sekel, Steve		Wilder Technologies
Shah, Anup	Siemens Corporation	Siemens EDA
Shakiba, Mohammad	Huawei Technologies Canada	Huawei Technologies Canada; Huawei Technologies Co., Ltd

<b>Name</b>	<b>Employer</b>	<b>Affiliation</b>
Shanbhag, Megha	Tyco	TE Connectivity
She, Qingya	Fujitsu Network Communications	Fujitsu Network Communications
Sheffi, Nir	Alphawave	Alphawave
Shoval, Ayal	Synopsys, Inc.	Synopsys, Inc.
Shukla, Priyank	Synopsys, Inc.	Synopsys, Inc.
Sikkink, Mark	Hewlett Packard Enterprise	Hewlett Packard Enterprise
Simms, William	NVIDIA Corporation	NVIDIA Corporation
Sinn, Peter		Alphawave IP
Sluyski, Mike	Cisco Systems, Inc.	Cisco Systems, Inc.
Sommers, Scott	Molex LLC	Molex Incorporated
Son, Yung Sung	Optomind Inc	Optomind Inc
Sprague, Edward	Infinera Corporation	Infinera Corporation
Stephens, Jeremy	Intel	AMD
Sun, Junqing	Credo Semiconductor	Credo Semiconductor
Swenson, Norman	Norman Swenson Consulting	Norman Swenson Consulting; Point2 Technology Inc.
Tan, Yuxuan	Motorcomm	Motorcomm
Tartaglia, Antonio	Ericsson AB	Ericsson AB



<b>Name</b>	<b>Employer</b>	<b>Affiliation</b>
Theodoras, James	HG Genuine	HG Genuine
Toyserkani, Pirooz	Cisco Systems, Inc.	Cisco Systems, Inc.
Torres, Luisma	Knowledge Development for Plastic Optical Fiber	Knowledge Development for Plastic Optical Fiber
Tracy, Nathan	TE Connectivity	TE Connectivity
Tran, Viet	Keysight Technologies	Keysight Technologies
Ulrichs, Ed	Intel	Intel
Venkataraman, Srinivas		Facebook
Vidal, Or	Alphawave Semi	Alphawave Semi
Wang, Haojie	China Mobile Communications Corporation (CMCC)	China Mobile Communications Corporation (CMCC)
Wang, Shun-Sheng	Realtek Semiconductor Corp.	Realtek Semiconductor Corp.
Watanabe, Yojiro		Mitsubishi Electric US, Inc.
Watanabe, Yuji	AGC Inc.	AGC
Welch, Brian	Cisco Systems, Inc.	Luxtera
Wingrove, Michael	Ciena Corporation	Ciena Corporation
Wu, Mau-Lin	MediaTek Inc.	MediaTek Inc.

Name	Employer	Affiliation
Xu, Yu	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
Yin, Shuang		Google
Zhuang, Shu		Anritsu Company
Zivny, Pavel	Tektronix, Inc.	Tektronix, Inc.

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Name	Employer	Affiliation
Banas, David		Keysight
Bernier, Eric	Huawei Technologies Canada Co., Ltd.	Huawei Technologies Canada Co., Ltd.
Brown, Matthew	Alphawave	Alphawave
Bruckman, Leon	Huawei Technologies Co., Ltd	Nvidia
Cai, Yuefeng	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
Chan Carusone, Anthony	Alphawave Semi	Alphawave Semi
Chang, Yongmao	Inphi Corporation	Source Photonics
Chen, Chan	Self Employed	Independent/AOI

<b>Name</b>	<b>Employer</b>	<b>Affiliation</b>
Choudhury, Golam	OFS	OFS
Cole, Christopher R	Finisar Corporation	Finisar Corporation
Cox, Ian		Broadcom Corporation
D'Ambrosia, John	Futurewei Technologies, U.S. Subsidiary of Huawei	Futurewei Technologies, U.S. Affiliate of Huawei
de Koos, Andras	Microchip Technology Inc	Microchip Technology Inc
Dudek, Michael	Marvell	Marvell
Effenberger, Frank	Futurewei Technologies	Futurewei Technologies
El-Chayeb, Ahmad	Keysight Technologies Inc	Keysight Technologies Inc
Fan, Qirui		Huawei Technologies Co., Ltd
Ferretti, Vincent	Corning Incorporated	Corning Incorporated
Feyh, German	Broadcom Corporation	Broadcom Corporation
Galan, Jose	MaxLinear, Inc.	MaxLinear, Inc.
Gao, Xiangrong	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
Geng, Limin	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd

<b>Name</b>	<b>Employer</b>	<b>Affiliation</b>
Ghiasi, Ali	Ghiasi Quantum LLC	Ghiasi Quantum LLC; Marvell Semiconductor, Inc.
Gorshe, Steven Scott	Microchip Technology, Inc.	Microchip Technology, Inc.
Graba, James	Broadcom Corporation	Broadcom Corporation
Gui, Tao		Huawei Technologies Co., Ltd
Hajduczenia, Marek	Charter Communications	Charter Communications
Harshbarger, Douglas		Corning Incorporated
He, Michael		Innolight Technology Corproation
He, Xiang	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
Hirose, Takeshi	AGC Inc.	AGC Inc.
Huang, Kechao	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
Huber, Thomas	Nokia	Nokia
Huebner, Bernd	Cisco Systems, Inc.	Cisco Systems
HYAKUTAKE, YASUHIRO	Orbray Co., Ltd.	Orbray Co., Ltd.
Ingham, Jonathan	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd

<b>Name</b>	<b>Employer</b>	<b>Affiliation</b>
Isono, Hideki	Fujitsu Optical Components Limited	Fujitsu Optical Components Limited
Issenhuth, Tom	Issenhuth Consulting, LLC	Huawei Technologies Co., Ltd
Jackson, Kenneth	Sumitomo Electric Industries, LTD	Sumitomo Electric Industries, LTD
Johnson, John	Broadcom Corporation	Broadcom Corporation
Kim, Kihong/Joshua	Hirose Electric (USA), Inc.	Hirose Electric (USA), Inc.
Kimber, Eric	Semtech Ltd	Semtech Ltd
Kondo, Taiji	MegaChips Corporation	Dexerials Corporation
Kota, Kishore	Marvell Semiconductor, Inc.	Marvell Semiconductor, Inc.
Lambert, Angela	Corning Incorporated	Corning Incorporated
Lasry, Ariel	Qualcomm Technologies, Inc	Qualcomm Technologies, Inc
Lawson, Matthew	Cisco Systems, Inc.	Cisco Systems, Inc.
Lieder, Eyal	Marvell Semiconductor, Inc.	Marvell Semiconductor, Inc.
Liu, Qingzhong		Fast Photonics
LIU, XIANG		Huawei Technologies Co., Ltd

<b>Name</b>	<b>Employer</b>	<b>Affiliation</b>
Luo, Yuanqiu	Futurewei Technologies	Futurewei Technologies
Maki, Jeffery	Juniper Networks, Inc.	Juniper Networks, Inc.
Malicoat, David	Malicoat Networking Solutions	Malicoat Networking Solutions; SENKO Advanced Components
Maniloff, Eric	Ciena Corporation	Ciena Corporation
Marques, Flavio	FURUKAWA ELECTRIC	FURUKAWA ELECTRIC
Marris, Arthur	Cadence Design Systems, Inc.	Cadence Design Systems, Inc.
Martino, Kjersti	Inneos	Inneos
mi, guangcan	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
Mitcheltree, Tom	US Conec, Ltd.	US Conec, Ltd.
Moorwood, Charles	Keysight Technologies	Keysight Technologies
Muhigana, Ernest		Lumentum
Muller, Shimon	Enfabrica Corp.	Enfabrica
Murray, Brian	Analog Devices Inc.	Analog Devices
Nakamoto, Edward	Spirent Communications	Spirent Communications

<b>Name</b>	<b>Employer</b>	<b>Affiliation</b>
Nering, Raymond	Cisco Systems, Inc.	Cisco Systems, Inc.
Nicholl, Gary	Cisco Systems, Inc.	Cisco Systems, Inc.
Nicholl, Shawn	Advanced Micro Devices (AMD)	Advanced Micro Devices (AMD)
NIIHARA, YOSHIHIRO	Fujikura Ltd.	Fujikura Ltd.
Ninomiya, Tiger	Accelink USA Corporation	Accelink USA Corporation
Nowell, Mark	Cisco Systems, Inc.	Cisco Systems, Inc.
Ofelt, David	Juniper Networks, Inc.	Juniper Networks, Inc.
OGAWA, SHOJI	Fujitsu Optical Components Limited	Fujitsu Optical Components Limited
Omori, Kumi	NEC Corporation	NEC Corporation
Opsasnick, Eugene	Broadcom Inc.	Broadcom Inc.
PARK, CHUL SOO	Juniper Networks Inc.	Juniper Networks, Inc.
Parkholm, Ulf	Telefon AB LM Ericsson	Telefon AB LM Ericsson
Parsons, Earl	CommScope, Inc.	CommScope, Inc.
Parthasarathy, Vasu	Broadcom Corporation	Broadcom Corporation
peng, semmy		Huawei Technologies Co., Ltd

<b>Name</b>	<b>Employer</b>	<b>Affiliation</b>
Pepper, Gerald	Keysight Technologies	Keysight Technologies
Peters, Kevin	Inneos	Inneos
Pineda, Luis	LP Tech Advisors, LLC	LP Tech Advisors, LLC
Razavi, Alireza	Marvell	Marvell
Rechtman, Zvi	NVIDIA	NVIDIA
Rodes, Roberto	II-VI	II-VI
Royer, Tyler		Senko Advanced Components
Rubin, Amir		NVIDIA
Rush, Joshua		UNH-IOL
Sambasivan, Sam	AT&T	AT&T
SAWANO, Hiroshi	OITDA (Optoelectronics Industry and Technology Development Association)	OITDA
Sayre, Edward	Samtec, Inc.	North East System Associates
Sedarat, Hossein	Ethernovia	Ethernovia
Shah, Anup	Siemens Corporation	Siemens EDA



<b>Name</b>	<b>Employer</b>	<b>Affiliation</b>
She, Qingya	Fujitsu Network Communications	Fujitsu Network Communications
Sheffi, Nir	Alphawave	Alphawave
shirani, ramin	Ethernovia	Ethernovia
Sikkink, Mark	Hewlett Packard Enterprise	Hewlett Packard Enterprise
Sinn, Peter		Alphawave IP
Sluyski, Mike	Cisco Systems, Inc.	Cisco Systems, Inc.
Son, Yung Sung	Optomind Inc	Optomind Inc
Sorbara, Massimo	GLOBALFOUNDRIES	GLOBALFOUNDRIES
Sprague, Edward	Infinera Corporation	Infinera Corporation
Stassar, Peter	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
Sun, jingcong		Motorcomm Electronic Technology Co
TAKAHARA, TOMOO	FUJITSU LABORATORIES LIMITED	FUJITSU LIMITED
TAN, SISI	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
Tan, Yuxuan	Motorcomm	Motorcomm

<b>Name</b>	<b>Employer</b>	<b>Affiliation</b>
Tartaglia, Antonio	Ericsson AB	Ericsson AB
Theodoras, James	HG Genuine	HG Genuine
Torres, Luisma	Knowledge Development for Plastic Optical Fiber	Knowledge Development for Plastic Optical Fiber
Tran, Viet	Keysight Technologies	Keysight Technologies
Ulrichs, Ed	Intel	Intel
Vidal, Or	Alphawave Semi	Alphawave Semi
Wang, Haojie	China Mobile Communications Corporation (CMCC)	China Mobile Communications Corporation (CMCC)
Watanabe, Yojiro		Mitsubishi Electric US, Inc.
Watanabe, Yuji	AGC Inc.	AGC
Welch, Brian	Cisco Systems, Inc.	Luxtera
Whisnant, Michelle		UNH-IOL
Williams, Tom	Cisco Systems, Inc.	Cisco Systems, Inc.
Yamazaki, Kinya	APRESIA Systems	APRESIA Systems
Yin, Shuang		Google

<b>Name</b>	<b>Employer</b>	<b>Affiliation</b>
Yu, Rang-Chen	Innolight Technology Corproation	Innolight Technology Corproation
Zerna, Conrad	Aviva Links Inc	Aviva Links Inc
Zhuang, Shu		Anritsu Company
Zivny, Pavel	Tektronix, Inc.	Tektronix, Inc.

### 16 July 2024 - Track 2

<b>Name</b>	<b>Employer</b>	<b>Affiliation</b>
Banas, David		Keysight
Beauregard, Francois	Belden Canada ULC	Belden
Benyamin, Saied	Ethernovia	Ethernovia
Bois, Karl	NVIDIA Corporation	NVIDIA Corporation
Borda, jamila josip	BMW Group	in-tech GmbH
Brooks, Paul	Viavi solutions GmbH	Viavi Solutions
Calvin, John	Keysight Technologies	Keysight Technologies
Cassan, Dave	Alphawave	Alphawave
cheng, weiqiang	China Mobile Limited	China Mobile Limited

<b>Name</b>	<b>Employer</b>	<b>Affiliation</b>
Dalmia, Kamal	Aviva Links Inc	Aviva Links Inc
Dawe, Piers J G	NVIDIA	Nvidia
Diminico, Christopher	M C Communications, LLC	Panduit Corp.
Donahue, Curtis	Rohde & Schwarz	Rohde & Schwarz
Dudek, Michael	Marvell	Marvell
Gauthier, Claude	NXP Semiconductors	NXP Semiconductors
Ghiasi, Ali	Ghiasi Quantum LLC	Ghiasi Quantum LLC; Marvell Semiconductor, Inc.
Gilb, James	General Atomics Aeronautical Systems, Inc.	General Atomics Aeronautical Systems, Inc.
Goel, Sachin	Aviva Links Inc	Aviva Links Inc
Gorshe, Steven Scott	Microchip Technology, Inc.	Microchip Technology, Inc.
Han, Ruibo	China Mobile Communications Corporation (CMCC)	China Mobile Communications Corporation (CMCC)
Harshbarger, Douglas		Corning Incorporated
Healey, Adam	Broadcom Inc.	Broadcom Inc.

<b>Name</b>	<b>Employer</b>	<b>Affiliation</b>
Heck, Howard	Intel	Intel
Hidaka, Yasuo	Credo Semiconductor	Credo Semiconductor
Hiroaki, Kukita	Yamaichi Electronics	Yamaichi Electronics
Ho, Matthew		TE Connectivity
Kapoor, Samay	Aviva Links	Aviva Links Inc.
Kareti, Upen	Cisco Systems, Inc.	Cisco Systems, Inc.
Kim, Kihong/Joshua	Hirose Electric (USA), Inc.	Hirose Electric (USA), Inc.
Kochuparambil, Elizabeth	Cisco Systems, Inc.	Cisco Systems, Inc.
Kocsis, Sam	Amphenol Corporation	Amphenol Corporation
Kondo, Taiji	MegaChips Corporation	Dexerials Corporation
Krishnasamy, Kumaran	Broadcom Corporation	Broadcom Corporation
Levin, Itamar		Intel Corporation
Li, Mike-Peng	Intel	Intel
Li, Pei-Rong	MediaTek Inc.	MediaTek Inc.
Lim, Jane	Cisco Systems, Inc.	Cisco Systems, Inc.

<b>Name</b>	<b>Employer</b>	<b>Affiliation</b>
Little, Terrance	Foxconn Electronics Inc.	Foxconn Electronics Inc.
Liu, Hai-Feng	HG Genuine	HG Genuine
Liu, Karen	Nubis Communications	Nubis Communications
Liu, Qingzhong		Fast Photonics
Lo, William	Axonne Inc.	Axonne Inc.
Lusted, Kent	Intel	Intel
Lyubomirsky, Ilya	Inphi Corporation	Astera Labs
Marris, Arthur	Cadence Design Systems, Inc.	Cadence Design Systems, Inc.
mash, chris	Nupero Ltd	Ethernovia Inc
Mellitz, Richard	Samtec, Inc.	Samtec, Inc.
Moorwood, Charles	Keysight Technologies	Keysight Technologies
MURAKAMI, YUKI	FUJITSU	FUJITSU LIMITED
Muth, Karlheinz	Broadcom Corporation	Broadcom Corporation
Ng, Hiok Tiaq	Aviva Links Inc.	Aviva Links Inc.
Noujeim, Leesa	Google	Google

<b>Name</b>	<b>Employer</b>	<b>Affiliation</b>
Opsasnick, Eugene	Broadcom Inc.	Broadcom Inc.
Palkert, Thomas	Macom,&nbsp;Samtec	Samtec-Macom
Parkholm, Ulf	Telefon AB LM Ericsson	Telefon AB LM Ericsson
Pineda, Luis	LP Tech Advisors, LLC	LP Tech Advisors, LLC
Rabinovich, Rick	Keysight Technologies	Keysight Technologies
Ran, Adee	Cisco Systems, Inc.	Cisco Systems, Inc.
Rechtman, Zvi	NVIDIA	NVIDIA
Royer, Tyler		Senko Advanced Components
Rush, Joshua		UNH-IOL
Rysin, Alexander	NVIDIA	NVIDIA
Sakai, Toshiaki	Socionext Inc.	socionext
Sayre, Edward	Samtec, Inc.	North East System Associates
Sekel, Steve		Wilder Technologies

Name	Employer	Affiliation
Shakiba, Mohammad	Huawei Technologies Canada	Huawei Technologies Canada; Huawei Technologies Co., Ltd
Shanbhag, Megha	Tyco	TE Connectivity
Shoval, Ayal	Synopsys, Inc.	Synopsys, Inc.
Shrikhande, Kapil	Marvell Semiconductor, Inc.	Marvell Semiconductor, Inc.
Shukla, Priyank	Synopsys, Inc.	Synopsys, Inc.
Sikkink, Mark	Hewlett Packard Enterprise	Hewlett Packard Enterprise
Simms, William	NVIDIA Corporation	NVIDIA Corporation
Sommers, Scott	Molex LLC	Molex Incorporated
Son, Yung Sung	Optomind Inc	Optomind Inc
Stephens, Jeremy	Intel	AMD
Sun, Junqing	Credo Semiconductor	Credo Semiconductor
Swenson, Norman	Norman Swenson Consulting	Norman Swenson Consulting; Point2 Technology Inc.



<b>Name</b>	<b>Employer</b>	<b>Affiliation</b>
Tooyserkani, Pirooz	Cisco Systems, Inc.	Cisco Systems, Inc.
Tracy, Nathan	TE Connectivity	TE Connectivity
Venkataraman, Srinivas		Facebook
Wang, Haojie	China Mobile Communications Corporation (CMCC)	China Mobile Communications Corporation (CMCC)
Wang, Shun-Sheng	Realtek Semiconductor Corp.	Realtek Semiconductor Corp.
Wingrove, Michael	Ciena Corporation	Ciena Corporation
Wu, Mau-Lin	MediaTek Inc.	MediaTek Inc.
Wu, Peter	Marvell Semiconductor, Inc.	Marvell Semiconductor, Inc.
Xu, Yu	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
Yin, Shuang		Google
Zebian, Sara		Google
Zhang, Tingting	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
Zhuang, Shu		Anritsu Company

Name	Employer	Affiliation
Zivny, Pavel	Tektronix, Inc.	Tektronix, Inc.

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Name	Employer	Affiliation
Aekins, Rob	Legrand	Legrand
Banas, David		Keysight
Beauregard, Francois	Belden Canada ULC	Belden
Benyamin, Saied	Ethernovia	Ethernovia
Bernier, Eric	Huawei Technologies Canada Co., Ltd.	Huawei Technologies Canada Co., Ltd.
Bois, Karl	NVIDIA Corporation	NVIDIA Corporation
Borda, jamila josip	BMW Group	in-tech GmbH
Brooks, Paul	Viavi solutions GmbH	Viavi Solutions
Brown, Matthew	Alphawave	Alphawave
Bruckman, Leon	Huawei Technologies Co., Ltd	Nvidia
Cai, Yuefeng	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd

<b>Name</b>	<b>Employer</b>	<b>Affiliation</b>
Calvin, John	Keysight Technologies	Keysight Technologies
Cassan, Dave	Alphawave	Alphawave
Chan Carusone, Anthony	Alphawave Semi	Alphawave Semi
Chang, Yongmao	Inphi Corporation	Source Photonics
Chen, Chan	Self Employed	Independent/AOI
cheng, weiqiang	China Mobile Limited	China Mobile Limited
Choudhury, Golam	OFS	OFS
Cole, Christopher R	Finisar Corporation	Finisar Corporation
Cox, Ian		Broadcom Corporation
Dalmia, Kamal	Aviva Links Inc	Aviva Links Inc
D'Ambrosia, John	Futurewei Technologies, U.S. Subsidiary of Huawei	Futurewei Technologies, U.S. Affiliate of Huawei
Dawe, Piers J G	NVIDIA	Nvidia
de Koos, Andras	Microchip Technology Inc	Microchip Technology Inc
Diminico, Christopher	M C Communications, LLC	Panduit Corp.

<b>Name</b>	<b>Employer</b>	<b>Affiliation</b>
Donahue, Curtis	Rohde & Schwarz	Rohde & Schwarz
Dudek, Michael	Marvell	Marvell
Effenberger, Frank	Futurewei Technologies	Futurewei Technologies
El-Chayeb, Ahmad	Keysight Technologies Inc	Keysight Technologies Inc
Estrakh, Daniel	Valens Semiconductor	Valens Semiconductor
Fan, Qirui		Huawei Technologies Co., Ltd
Ferretti, Vincent	Corning Incorporated	Corning Incorporated
Feyh, German	Broadcom Corporation	Broadcom Corporation
Galan, Jose	MaxLinear, Inc.	MaxLinear, Inc.
Gao, Xiangrong	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
Gauthier, Claude	NXP Semiconductors	NXP Semiconductors
Geng, Limin	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
Ghiasi, Ali	Ghiasi Quantum LLC	Ghiasi Quantum LLC; Marvell Semiconductor, Inc.
Goel, Sachin	Aviva Links Inc	Aviva Links Inc

<b>Name</b>	<b>Employer</b>	<b>Affiliation</b>
Gorshe, Steven Scott	Microchip Technology, Inc.	Microchip Technology, Inc.
Graba, James	Broadcom Corporation	Broadcom Corporation
Gui, Tao		Huawei Technologies Co., Ltd
Hajduczenia, Marek	Charter Communications	Charter Communications
Han, Ruibo	China Mobile Communications Corporation (CMCC)	China Mobile Communications Corporation (CMCC)
Harshbarger, Douglas		Corning Incorporated
He, Michael		Innolight Technology Corporation
He, Xiang	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
Healey, Adam	Broadcom Inc.	Broadcom Inc.
Heck, Howard	Intel	Intel
Hidaka, Yasuo	Credo Semiconductor	Credo Semiconductor
Hiroaki, Kukita	Yamaichi Electronics	Yamaichi Electronics
Hirose, Takeshi	AGC Inc.	AGC Inc.
Ho, Matthew		TE Connectivity
Huang, Kechao	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd

<b>Name</b>	<b>Employer</b>	<b>Affiliation</b>
Huber, Thomas	Nokia	Nokia
Huebner, Bernd	Cisco Systems, Inc.	Cisco Systems
Ingham, Jonathan	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
Isono, Hideki	Fujitsu Optical Components Limited	Fujitsu Optical Components Limited
Issenhuth, Tom	Issenhuth Consulting, LLC	Huawei Technologies Co., Ltd
Jackson, Kenneth	Sumitomo Electric Industries, LTD	Sumitomo Electric Industries, LTD
Johnson, John	Broadcom Corporation	Broadcom Corporation
Kapoor, Samay	Aviva Links	Aviva Links Inc.
Kareti, Upen	Cisco Systems, Inc.	Cisco Systems, Inc.
Kim, Kihong/Joshua	Hirose Electric (USA), Inc.	Hirose Electric (USA), Inc.
Kimber, Eric	Semtech Ltd	Semtech Ltd
Kochuparambil, Elizabeth	Cisco Systems, Inc.	Cisco Systems, Inc.
Kocsis, Sam	Amphenol Corporation	Amphenol Corporation
Kondo, Taiji	MegaChips Corporation	Dexerials Corporation
Kota, Kishore	Marvell Semiconductor, Inc.	Marvell Semiconductor, Inc.

<b>Name</b>	<b>Employer</b>	<b>Affiliation</b>
Krishnasamy, Kumaran	Broadcom Corporation	Broadcom Corporation
Lambert, Angela	Corning Incorporated	Corning Incorporated
Lasry, Ariel	Qualcomm Technologies, Inc	Qualcomm Technologies, Inc
Lawson, Matthew	Cisco Systems, Inc.	Cisco Systems, Inc.
Levin, Itamar		Intel Corporation
Li, Mike-Peng	Intel	Intel
Li, Pei-Rong	MediaTek Inc.	MediaTek Inc.
Lieder, Eyal	Marvell Semiconductor, Inc.	Marvell Semiconductor, Inc.
Lim, Jane	Cisco Systems, Inc.	Cisco Systems, Inc.
Little, Terrance	Foxconn Electronics Inc.	Foxconn Electronics Inc.
Liu, Hai-Feng	HG Genuine	HG Genuine
Liu, Karen	Nubis Communications	Nubis Communications
Liu, Qingzhong		Fast Photonics
LIU, XIANG		Huawei Technologies Co., Ltd
Lo, William	Axonne Inc.	Axonne Inc.
Luo, Yuanqiu	Futurewei Technologies	Futurewei Technologies

<b>Name</b>	<b>Employer</b>	<b>Affiliation</b>
Lusted, Kent	Intel	Intel
Lyubomirsky, Ilya	Inphi Corporation	Astera Labs
Maki, Jeffery	Juniper Networks, Inc.	Juniper Networks, Inc.
Malicoat, David	Malicoat Networking Solutions	Malicoat Networking Solutions; SENKO Advanced Components
Maniloff, Eric	Ciena Corporation	Ciena Corporation
Marques, Flavio	FURUKAWA ELECTRIC	FURUKAWA ELECTRIC
Marris, Arthur	Cadence Design Systems, Inc.	Cadence Design Systems, Inc.
Martino, Kjersti	Inneos	Inneos
mash, chris	Nupero Ltd	Ethernovia Inc
Mellitz, Richard	Samtec, Inc.	Samtec, Inc.
mi, guangcan	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
Moorwood, Charles	Keysight Technologies	Keysight Technologies
Muhigana, Ernest		Lumentum
Muller, Shimon	Enfabrica Corp.	Enfabrica



<b>Name</b>	<b>Employer</b>	<b>Affiliation</b>
MURAKAMI, YUKI	FUJITSU	FUJITSU LIMITED
Muth, Karlheinz	Broadcom Corporation	Broadcom Corporation
Nakamoto, Edward	Spirent Communications	Spirent Communications
Nering, Raymond	Cisco Systems, Inc.	Cisco Systems, Inc.
Ng, Hiok Tiaq	Aviva Links Inc.	Aviva Links Inc.
Nicholl, Gary	Cisco Systems, Inc.	Cisco Systems, Inc.
Nicholl, Shawn	Advanced Micro Devices (AMD)	Advanced Micro Devices (AMD)
Ninomiya, Tiger	Accelink USA Corporation	Accelink USA Corporation
Noujeim, Leesa	Google	Google
Nowell, Mark	Cisco Systems, Inc.	Cisco Systems, Inc.
Ofelt, David	Juniper Networks, Inc.	Juniper Networks, Inc.
OGAWA, SHOJI	Fujitsu Optical Components Limited	Fujitsu Optical Components Limited
Omori, Kumi	NEC Corporation	NEC Corporation
Opsasnick, Eugene	Broadcom Inc.	Broadcom Inc.
Pal, Debajyoti		ON Semiconductor

<b>Name</b>	<b>Employer</b>	<b>Affiliation</b>
Palkert, Thomas	Macom,&nbsp;Samtec	Samtec-Macom
PARK, CHUL SOO	Juniper Networks Inc.	Juniper Networks, Inc.
Parkholm, Ulf	Telefon AB LM Ericsson	Telefon AB LM Ericsson
Parsons, Earl	CommScope, Inc.	CommScope, Inc.
Parthasarathy, Vasu	Broadcom Corporation	Broadcom Corporation
peng, semmy		Huawei Technologies Co., Ltd
Pepper, Gerald	Keysight Technologies	Keysight Technologies
Peters, Kevin	Inneos	Inneos
Pineda, Luis	LP Tech Advisors, LLC	LP Tech Advisors, LLC
Rabinovich, Rick	Keysight Technologies	Keysight Technologies
Ran, Adee	Cisco Systems, Inc.	Cisco Systems, Inc.
Razavi, Alireza	Marvell	Marvell
Rechtman, Zvi	NVIDIA	NVIDIA
Rodes, Roberto	II-VI	II-VI
Royer, Tyler		Senko Advanced Components
Rubin, Amir		NVIDIA

<b>Name</b>	<b>Employer</b>	<b>Affiliation</b>
Rush, Joshua		UNH-IOL
Rysin, Alexander	NVIDIA	NVIDIA
Sakai, Toshiaki	Socionext Inc.	socionext
Sambasivan, Sam	AT&T	AT&T
SAWANO, Hiroshi	OITDA (Optoelectronics Industry and Technology Development Association)	OITDA
Sayre, Edward	Samtec, Inc.	North East System Associates
Sedarat, Hossein	Ethernovia	Ethernovia
Sekel, Steve		Wilder Technologies
Shah, Anup	Siemens Corporation	Siemens EDA
Shakiba, Mohammad	Huawei Technologies Canada	Huawei Technologies Canada; Huawei Technologies Co., Ltd
Shanbhag, Megha	Tyco	TE Connectivity
She, Qingya	Fujitsu Network Communications	Fujitsu Network Communications
Sheffi, Nir	Alphawave	Alphawave

<b>Name</b>	<b>Employer</b>	<b>Affiliation</b>
shirani, ramin	Ethernovia	Ethernovia
Shoval, Ayal	Synopsys, Inc.	Synopsys, Inc.
Shrikhande, Kapil	Marvell Semiconductor, Inc.	Marvell Semiconductor, Inc.
Shukla, Priyank	Synopsys, Inc.	Synopsys, Inc.
Sikkink, Mark	Hewlett Packard Enterprise	Hewlett Packard Enterprise
Simms, William	NVIDIA Corporation	NVIDIA Corporation
Sinn, Peter		Alphawave IP
Sluyski, Mike	Cisco Systems, Inc.	Cisco Systems, Inc.
Sommers, Scott	Molex LLC	Molex Incorporated
Son, Yung Sung	Optomind Inc	Optomind Inc
Sorbara, Massimo	GLOBALFOUNDRIES	GLOBALFOUNDRIES
Sprague, Edward	Infinera Corporation	Infinera Corporation
Stassar, Peter	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
Stephens, Jeremy	Intel	AMD
Sun, Junqing	Credo Semiconductor	Credo Semiconductor

<b>Name</b>	<b>Employer</b>	<b>Affiliation</b>
Swenson, Norman	Norman Swenson Consulting	Norman Swenson Consulting; Point2 Technology Inc.
TAKAHARA, TOMOO	FUJITSU LABORATORIES LIMITED	FUJITSU LIMITED
TAN, SISI	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
Tan, Yuxuan	Motorcomm	Motorcomm
Tartaglia, Antonio	Ericsson AB	Ericsson AB
Theodoras, James	HG Genuine	HG Genuine
Toyserkani, Pirooz	Cisco Systems, Inc.	Cisco Systems, Inc.
Torres, Luisma	Knowledge Development for Plastic Optical Fiber	Knowledge Development for Plastic Optical Fiber
Tracy, Nathan	TE Connectivity	TE Connectivity
Tran, Viet	Keysight Technologies	Keysight Technologies
Ulrichs, Ed	Intel	Intel
Venkataraman, Srinivas		Facebook
Vidal, Or	Alphawave Semi	Alphawave Semi

<b>Name</b>	<b>Employer</b>	<b>Affiliation</b>
Wang, Haojie	China Mobile Communications Corporation (CMCC)	China Mobile Communications Corporation (CMCC)
Wang, Shun-Sheng	Realtek Semiconductor Corp.	Realtek Semiconductor Corp.
Watanabe, Yojiro		Mitsubishi Electric US, Inc.
Watanabe, Yuji	AGC Inc.	AGC
Welch, Brian	Cisco Systems, Inc.	Luxtera
Williams, Tom	Cisco Systems, Inc.	Cisco Systems, Inc.
Wingrove, Michael	Ciena Corporation	Ciena Corporation
Wu, Mau-Lin	MediaTek Inc.	MediaTek Inc.
Wu, Peter	Marvell Semiconductor, Inc.	Marvell Semiconductor, Inc.
Xu, Yu	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
Yamazaki, Kinya	APRESIA Systems	APRESIA Systems
Yin, Shuang		Google
Yu, Rang-Chen	Innolight Technology Corproation	Innolight Technology Corproation
Zerna, Conrad	Aviva Links Inc	Aviva Links Inc
Zhuang, Shu		Anritsu Company

<b>Name</b>	<b>Employer</b>	<b>Affiliation</b>
Zhuang, Yan	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
Zivny, Pavel	Tektronix, Inc.	Tektronix, Inc.

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<b>Name</b>	<b>Employer</b>	<b>Affiliation</b>
Aekins, Rob	Legrand	Legrand
Banas, David		Keysight
Beauregard, Francois	Belden Canada ULC	Belden
Bernier, Eric	Huawei Technologies Canada Co., Ltd.	Huawei Technologies Canada Co., Ltd.
Bois, Karl	NVIDIA Corporation	NVIDIA Corporation
Brooks, Paul	Viavi solutions GmbH	Viavi Solutions
Brown, Matthew	Alphawave	Alphawave
Bruckman, Leon	Huawei Technologies Co., Ltd	Nvidia
Cai, Yuefeng	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
Calvin, John	Keysight Technologies	Keysight Technologies
Cassan, Dave	Alphawave	Alphawave

<b>Name</b>	<b>Employer</b>	<b>Affiliation</b>
Chan Carusone, Anthony	Alphawave Semi	Alphawave Semi
Chang, Yongmao	Inphi Corporation	Source Photonics
Chen, Chan	Self Employed	Independent/AOI
cheng, weiqiang	China Mobile Limited	China Mobile Limited
Choudhury, Golam	OFS	OFS
Cole, Christopher R	Finisar Corporation	Finisar Corporation
Cox, Ian		Broadcom Corporation
D'Ambrosia, John	Futurewei Technologies, U.S. Subsidiary of Huawei	Futurewei Technologies, U.S. Affiliate of Huawei
Dawe, Piers J G	NVIDIA	Nvidia
de Koos, Andras	Microchip Technology Inc	Microchip Technology Inc
Diminico, Christopher	M C Communications, LLC	Panduit Corp.
Dudek, Michael	Marvell	Marvell
Effenberger, Frank	Futurewei Technologies	Futurewei Technologies
El-Chayeb, Ahmad	Keysight Technologies Inc	Keysight Technologies Inc
Fan, Qirui		Huawei Technologies Co., Ltd
Galan, Jose	MaxLinear, Inc.	MaxLinear, Inc.
Geng, Limin	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd



<b>Name</b>	<b>Employer</b>	<b>Affiliation</b>
Ghiasi, Ali	Ghiasi Quantum LLC	Ghiasi Quantum LLC; Marvell Semiconductor, Inc.
Gui, Tao		Huawei Technologies Co., Ltd
Han, Ruibo	China Mobile Communications Corporation (CMCC)	China Mobile Communications Corporation (CMCC)
He, Michael		Innolight Technology Corporation
He, Xiang	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
Healey, Adam	Broadcom Inc.	Broadcom Inc.
Heck, Howard	Intel	Intel
Hidaka, Yasuo	Credo Semiconductor	Credo Semiconductor
Hiroaki, Kukita	Yamaichi Electronics	Yamaichi Electronics
Ho, Matthew		TE Connectivity
Huang, Kechao	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
Huber, Thomas	Nokia	Nokia
Ingham, Jonathan	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
Isono, Hideki	Fujitsu Optical Components Limited	Fujitsu Optical Components Limited

<b>Name</b>	<b>Employer</b>	<b>Affiliation</b>
Issenhuth, Tom	Issenhuth Consulting, LLC	Huawei Technologies Co., Ltd
Jackson, Kenneth	Sumitomo Electric Industries, LTD	Sumitomo Electric Industries, LTD
Johnson, John	Broadcom Corporation	Broadcom Corporation
Kareti, Upen	Cisco Systems, Inc.	Cisco Systems, Inc.
Kim, Kihong/Joshua	Hirose Electric (USA), Inc.	Hirose Electric (USA), Inc.
Kimber, Eric	Semtech Ltd	Semtech Ltd
Kochuparambil, Elizabeth	Cisco Systems, Inc.	Cisco Systems, Inc.
Kocsis, Sam	Amphenol Corporation	Amphenol Corporation
Kondo, Taiji	MegaChips Corporation	Dexerials Corporation
Kota, Kishore	Marvell Semiconductor, Inc.	Marvell Semiconductor, Inc.
Krishnasamy, Kumaran	Broadcom Corporation	Broadcom Corporation
Lackner, Hans	QoSCom GmbH	QoSCom GmbH
Lambert, Angela	Corning Incorporated	Corning Incorporated
Lawson, Matthew	Cisco Systems, Inc.	Cisco Systems, Inc.
Levin, Itamar		Intel Corporation
Li, Mike-Peng	Intel	Intel
Li, Pei-Rong	MediaTek Inc.	MediaTek Inc.

<b>Name</b>	<b>Employer</b>	<b>Affiliation</b>
Lim, Jane	Cisco Systems, Inc.	Cisco Systems, Inc.
Little, Terrance	Foxconn Electronics Inc.	Foxconn Electronics Inc.
Liu, Hai-Feng	HG Genuine	HG Genuine
Liu, Karen	Nubis Communications	Nubis Communications
Liu, Qingzhong		Fast Photonics
LIU, XIANG		Huawei Technologies Co., Ltd
Luo, Yuanqiu	Futurewei Technologies	Futurewei Technologies
Lusted, Kent	Intel	Intel
Maki, Jeffery	Juniper Networks, Inc.	Juniper Networks, Inc.
Malicoat, David	Malicoat Networking Solutions	Malicoat Networking Solutions; SENKO Advanced Components
Maniloff, Eric	Ciena Corporation	Ciena Corporation
Marques, Flavio	FURUKAWA ELECTRIC	FURUKAWA ELECTRIC
Marris, Arthur	Cadence Design Systems, Inc.	Cadence Design Systems, Inc.
Martino, Kjersti	Inneos	Inneos
Mellitz, Richard	Samtec, Inc.	Samtec, Inc.
mi, guangcan	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd

<b>Name</b>	<b>Employer</b>	<b>Affiliation</b>
Mitcheltree, Tom	US Conec, Ltd.	US Conec, Ltd.
Moorwood, Charles	Keysight Technologies	Keysight Technologies
Muhigana, Ernest		Lumentum
Muller, Shimon	Enfabrica Corp.	Enfabrica
MURAKAMI, YUKI	FUJITSU	FUJITSU LIMITED
Muth, Karlheinz	Broadcom Corporation	Broadcom Corporation
Nakamoto, Edward	Spirent Communications	Spirent Communications
Nering, Raymond	Cisco Systems, Inc.	Cisco Systems, Inc.
Nicholl, Gary	Cisco Systems, Inc.	Cisco Systems, Inc.
Nicholl, Shawn	Advanced Micro Devices (AMD)	Advanced Micro Devices (AMD)
Ninomiya, Tiger	Accelink USA Corporation	Accelink USA Corporation
Noujeim, Leesa	Google	Google
Nowell, Mark	Cisco Systems, Inc.	Cisco Systems, Inc.
Ofelt, David	Juniper Networks, Inc.	Juniper Networks, Inc.
OGAWA, SHOJI	Fujitsu Optical Components Limited	Fujitsu Optical Components Limited
Omori, Kumi	NEC Corporation	NEC Corporation
Opsasnick, Eugene	Broadcom Inc.	Broadcom Inc.

<b>Name</b>	<b>Employer</b>	<b>Affiliation</b>
Palkert, Thomas	Macom,&nbsp;&nbsp; Samtec	Samtec-Macom
PARK, CHUL SOO	Juniper Networks Inc.	Juniper Networks, Inc.
Parkholm, Ulf	Telefon AB LM Ericsson	Telefon AB LM Ericsson
Parsons, Earl	CommScope, Inc.	CommScope, Inc.
peng, semmy		Huawei Technologies Co., Ltd
Pepper, Gerald	Keysight Technologies	Keysight Technologies
Rabinovich, Rick	Keysight Technologies	Keysight Technologies
Ran, Adee	Cisco Systems, Inc.	Cisco Systems, Inc.
Rechtman, Zvi	NVIDIA	NVIDIA
Rodes, Roberto	II-VI	II-VI
Royer, Tyler		Senko Advanced Components
Rubin, Amir		NVIDIA
Rush, Joshua		UNH-IOL
Rysin, Alexander	NVIDIA	NVIDIA
Sakai, Toshiaki	Socionext Inc.	socionext
Sambasivan, Sam	AT&T	AT&T
SAWANO, Hiroshi	OITDA (Optoelectronics Industry and Technology Development Association)	OITDA

<b>Name</b>	<b>Employer</b>	<b>Affiliation</b>
Sedarat, Hossein	Ethernovia	Ethernovia
Sekel, Steve		Wilder Technologies
Shah, Anup	Siemens Corporation	Siemens EDA
Shakiba, Mohammad	Huawei Technologies Canada	Huawei Technologies Canada; Huawei Technologies Co., Ltd
Shanbhag, Megha	Tyco	TE Connectivity
She, Qingya	Fujitsu Network Communications	Fujitsu Network Communications
Sheffi, Nir	Alphawave	Alphawave
Shoval, Ayal	Synopsys, Inc.	Synopsys, Inc.
Shrikhande, Kapil	Marvell Semiconductor, Inc.	Marvell Semiconductor, Inc.
Shukla, Priyank	Synopsys, Inc.	Synopsys, Inc.
Sikkink, Mark	Hewlett Packard Enterprise	Hewlett Packard Enterprise
Simms, William	NVIDIA Corporation	NVIDIA Corporation
Sinn, Peter		Alphawave IP
Sluyski, Mike	Cisco Systems, Inc.	Cisco Systems, Inc.
Sommers, Scott	Molex LLC	Molex Incorporated
Son, Yung Sung	Optomind Inc	Optomind Inc
Sorbara, Massimo	GLOBALFOUNDRIES	GLOBALFOUNDRIES

<b>Name</b>	<b>Employer</b>	<b>Affiliation</b>
Sprague, Edward	Infinera Corporation	Infinera Corporation
Stassar, Peter	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
Stephens, Jeremy	Intel	AMD
Sun, Junqing	Credo Semiconductor	Credo Semiconductor
Swenson, Norman	Norman Swenson Consulting	Norman Swenson Consulting; Point2 Technology Inc.
TAKAHARA, TOMOO	FUJITSU LABORATORIES LIMITED	FUJITSU LIMITED
TAN, SISI	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
Tartaglia, Antonio	Ericsson AB	Ericsson AB
Theodoras, James	HG Genuine	HG Genuine
Tooyserkani, Pirooz	Cisco Systems, Inc.	Cisco Systems, Inc.
Tracy, Nathan	TE Connectivity	TE Connectivity
Tran, Viet	Keysight Technologies	Keysight Technologies
Ulrichs, Ed	Intel	Intel
Veloso Cauce, Gumersindo	BMW Group	BMW AG; BMW Group
Venkataraman, Srinivas		Facebook
Vidal, Or	Alphawave Semi	Alphawave Semi

Name	Employer	Affiliation
Wang, Haojie	China Mobile Communications Corporation (CMCC)	China Mobile Communications Corporation (CMCC)
Watanabe, Yojiro		Mitsubishi Electric US, Inc.
Welch, Brian	Cisco Systems, Inc.	Luxtera
Williams, Tom	Cisco Systems, Inc.	Cisco Systems, Inc.
Wingrove, Michael	Ciena Corporation	Ciena Corporation
Wu, Mau-Lin	MediaTek Inc.	MediaTek Inc.
Xu, Yu	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
Yamazaki, Kinya	APRESIA Systems	APRESIA Systems
Yin, Shuang		Google
Zhuang, Shu		Anritsu Company
Zivny, Pavel	Tektronix, Inc.	Tektronix, Inc.