

# Joint Meeting of the IEEE P802.3cw DWDM Systems Task Force, IEEE P802.3df 400 Gb/s and 800 Gb/s Ethernet Task Force and 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, and Kent Lusted

## 11 September 2023

September 2023 interim

IEEE P802.3cw Task Force May 2023 Meeting Task Force Page – same as P802.3dj (see below)

IEEE P802.3df Task Force May 2023 Meeting Task Force Page - same as P802.3dj (see below)

IEEE P802.3dj Task Force May 2023 Meeting Task Force Page - [https://www.ieee802.org/3/dj/public/23\\_09/index.html](https://www.ieee802.org/3/dj/public/23_09/index.html)

Session called to order at 9:01 a.m. Brasilia (all times BRT) by John D'Ambrosia, Chair of P802.3cw, P802.3dj and P802.3df Task Forces.

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

Chair noted that the meeting would be a joint Task Force meeting of the P802.3cw Task Force, the P802.3df Task Force and the P802.3dj Task Force, as approved in the March 2023 IEEE 802.3 Working Group meeting. (see slide #2 of agenda).

## Agenda:

Title	<b>Agenda and General Information</b>
Presenters	John D'Ambrosia
URL	<a href="https://www.ieee802.org/3/dj/public/23_09/agenda_3cwdfdj_a_2309.pdf">https://www.ieee802.org/3/dj/public/23_09/agenda_3cwdfdj_a_2309.pdf</a>

Chair welcomed everyone to the meeting.

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

Chair reviewed the agenda (Slide #3) and noted presentation order (Slides #22-25). 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 #5)

- IEEE P802.3cw / .3df / .3dj Joint Task Force Plenary Session – July 2023
  - [https://www.ieee802.org/3/dj/public/23\\_07/minutes\\_3dj\\_2307\\_unapproved.pdf](https://www.ieee802.org/3/dj/public/23_07/minutes_3dj_2307_unapproved.pdf)
    - There was a modification request received with respect to a link on a contribution from Kishore Kota. There were no other change requests.
- IEEE P802.3df /3dj 20 July 2023 Electron Interim

- [https://www.ieee802.org/3/dj/public/23\\_0720/minutes\\_3dfdj\\_230720\\_unapproved.pdf](https://www.ieee802.org/3/dj/public/23_0720/minutes_3dfdj_230720_unapproved.pdf)
- IEEE P802.3cw 22 Aug 2023 Electronic Interim
  - [https://www.ieee802.org/3/cw/public/23\\_0822/minutes\\_3cw\\_230822\\_unapproved.pdf](https://www.ieee802.org/3/cw/public/23_0822/minutes_3cw_230822_unapproved.pdf)
- IEEE P802.3dj Electrical Ad hoc – 31 Aug 2023
  - [https://www.ieee802.org/3/dj/public/adhoc/electrical/23\\_0831/minutes\\_3dj\\_elec\\_230831.pdf](https://www.ieee802.org/3/dj/public/adhoc/electrical/23_0831/minutes_3dj_elec_230831.pdf)
- IEEE P802.3dj Joint Logic / Optis Ad Hoc - 29 Aug 2023
  - [https://www.ieee802.org/3/dj/public/adhoc/optics/0823\\_OPTX/minutes\\_3dj\\_optx\\_230829\\_unapproved.pdf](https://www.ieee802.org/3/dj/public/adhoc/optics/0823_OPTX/minutes_3dj_optx_230829_unapproved.pdf)

Chair asked if there were any corrections or modifications to the posted minutes. There were changes to the July 2023 plenary meeting minutes as noted on slide 5. Chair asked if there were any objections to approving the minutes with the changes. There were none, and the minutes were considered approved by unanimous consent.

Chair reviewed meeting decorum. (See Slide #5) Chair asked if there were any members of the press present. No one responded.

Chair reviewed attendance. (See Slide #6) Chair noted that Task Force meeting attendance would be through the IEEE Meeting Attendance (IMAT).

Chair reviewed the Task Force Project Information / Organization for the P802.3cw, P802.3df and the P802.3df Task Forces. (See Slides #7-9).

Chair provided the information to access the P802.3df and P802.3dj Task Force private area. He noted that the P802.3dj private area was for future use and the link was not yet active. The drafts are posted for participant review only.

Chair reviewed the goals for the session (see slide #10).

Chair reviewed ground rules. (See Slide #11)

Chair reviewed the current state of the Task Force. (See Slide #12-14.)

Chair reminded participants that for the September interim that the provision for remote attendees was provided on a best effort basis.

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.

Slide #16 - 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 #42) 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 #47) 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 #50) 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 #51) 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 for consideration. (see slide #17) He reminded participants of the incoming liaison from OIF to IEEE 802.3 on the topic of EVM that was posted to the meeting website. (see: [https://www.ieee802.org/3/minutes/sep23/incoming/OIF\\_liaison\\_IEEE802.3\\_EVM\\_14Aug23\\_Redacted.pdf](https://www.ieee802.org/3/minutes/sep23/incoming/OIF_liaison_IEEE802.3_EVM_14Aug23_Redacted.pdf) ) He also noted a liaison from Ultra Ethernet Consortium that was posted to the meeting website (see: [https://ieee802.org/3/minutes/sep23/incoming/UEC\\_liaison\\_to\\_802d3\\_redacted.pdf](https://ieee802.org/3/minutes/sep23/incoming/UEC_liaison_to_802d3_redacted.pdf)) Chair asked participants to contact him and the recording secretary with input on the liaisons.

Chair reviewed the progress on logic and electrical and optical interfaces. (see slide #18-19).

Chair noted that Mark Gustlin was stepping down as P802.3df and P802.3dj Logic lead. He thanked Mark Gustlin for his service. Mark Gustlin would be replaced by Gary Nicholl.

Kent Lusted noted that he sent a summary of the requests to pull comments from the P802.3df D3.0 bucket1 received before the deadline. He asked participants to review the list and contact the leadership if a request was missed. (see: <https://www.ieee802.org/3/B400G/email/msg00912.html> )

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 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 noted that there was the consideration of a motion related to comments in ‘bucket1’ at the end of the week. The bucket1 comments were announced on Friday, 1 September 2023 (see: <https://www.ieee802.org/3/B400G/email/msg00901.html> ) and the summary of bucket1 pulls were sent to the reflector. (see: <https://www.ieee802.org/3/B400G/email/msg00912.html> )

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

### Presentation #1

Title	<b>IEEE P802.3dj Electrical Ad hoc Update</b>
Presenters	Kent Lusted
URL	<a href="https://www.ieee802.org/3/dj/public/23_09/lusted_3dj_01a_2309.pdf">https://www.ieee802.org/3/dj/public/23_09/lusted_3dj_01a_2309.pdf</a>

Author noted an error in version '01' on slide 2 where information was missing. He would provide an updated version '01a'. Author also noted that the channel data provided by Upen Reddy Kareti had not been uploaded yet. He would announce the availability over the TF email reflector.

Questions were asked and answered.

### Presentation #2

Title	<b>Open Electrical Items in P802.3dj as of Sept 2023</b>
Presenters	Kent Lusted
URL	<a href="https://www.ieee802.org/3/dj/public/23_09/lusted_3dj_03_2309.pdf">https://www.ieee802.org/3/dj/public/23_09/lusted_3dj_03_2309.pdf</a>

Questions were asked and answered.

Vice Chair reminded participants to declare their affiliation in the online meeting tool.

### Presentation #3

Title	<b>IEEE P802.3dj Package Status Update &amp; Next Steps</b>
Presenters	Kent Lusted
URL	<a href="https://www.ieee802.org/3/dj/public/23_09/lusted_3dj_04_2309.pdf">https://www.ieee802.org/3/dj/public/23_09/lusted_3dj_04_2309.pdf</a>

Questions were asked and answered.

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

Break at 10:26 a.m. Resumed at 11:01 a.m.

Chair reminded participants that the Q&A queue for all contributions would open on the summary slide. Requests to get into the queue before the summary slide would be ignored.

### Presentation #4

Title	<b>A 212.5 Gbps-PAM4 1 Meter DAC Long Reach Channel and Its Characteristics: Design C</b>
Presenters	Mike Li
URL	<a href="https://www.ieee802.org/3/dj/public/23_09/lim_3dj_03_2309.pdf">https://www.ieee802.org/3/dj/public/23_09/lim_3dj_03_2309.pdf</a>

Questions were asked and answered.

### Presentation #5

Title	<b>212.5 Gbps-PAM4-LR Link Simulation and Analysis with a 1 Meter DAC Channel: Design C</b>
Presenters	Mike Li
URL	<a href="https://www.ieee802.org/3/dj/public/23_09/lim_3dj_04_2309.pdf">https://www.ieee802.org/3/dj/public/23_09/lim_3dj_04_2309.pdf</a>

Questions were asked and answered.

Prior to the start of presentation #6, the author noted an updated contribution with an additional reference. It would be an updated version '01a'.

#### **Presentation #6**

Title	<b>802.3dj - CR Considerations for Insertion Loss Budget Baseline</b>
Presenters	Chris Diminico
URL	<a href="https://www.ieee802.org/3/dj/public/23_09/diminico_3dj_01a_2309.pdf">https://www.ieee802.org/3/dj/public/23_09/diminico_3dj_01a_2309.pdf</a>

Questions were asked and answered.

Chair reminded participants that straw polls may be requested and that the TF leadership would determine the order.

#### **Straw Poll #1:**

I would support the package direction proposed in lusted\_3dj\_04\_2309 slide #4 and #7

Results (all): Y: 58, N: 4, A: 39

#### **Straw Poll #2:**

For the symmetrical use case, I would support the CR host and cable assembly insertion loss budget proposed in diminico\_3dj\_01a\_2309, slide 7

Results (all): Y: 44, N: 7, A: 48

Break at 1:00 pm. Resumed at 2:15 p.m.

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

#### **Presentation #7**

Title	<b>Brief on aspects of COM configuration for 200 Gb/s PAM 4 - How to get what you want!</b>
Presenters	Rich Mellitz
URL	<a href="https://www.ieee802.org/3/dj/public/23_09/mellitz_3dj_01_2309.pdf">https://www.ieee802.org/3/dj/public/23_09/mellitz_3dj_01_2309.pdf</a>

Author noted that a contribution with example configuration spreadsheets were posted to the meeting website. (see: [https://www.ieee802.org/3/dj/public/23\\_09/mellitz\\_3dj\\_02\\_2309.zip](https://www.ieee802.org/3/dj/public/23_09/mellitz_3dj_02_2309.zip))

Questions were asked and answered.

During Presentation #7, there was a break at 2:36 p.m to address network issues at the FTF site. Resumed at 2:43 p.m.

Chair reminded participants that remote attendance was supported as a best effort.

#### **Presentation #8**

Title	<b>Reference Receiver FFE with Floating Taps in COM Methodology</b>
Presenters	Mike Li
URL	<a href="https://www.ieee802.org/3/dj/public/23_09/lim_3dj_05_2309.pdf">https://www.ieee802.org/3/dj/public/23_09/lim_3dj_05_2309.pdf</a>

Questions were asked and answered.

Break at 3:30 p.m. Resumed at 4:13 p.m.

Chair reviewed the agenda for the day. The agenda was behind. He proposed changes to the schedule for Monday and Tuesday. He asked if there was opposition to the proposed change. No one responded.

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

Prior to the start of the presentation, the author noted an update with technical changes to add notes and correct file references. She would provide an updated version '01a'.

#### **Presentation #9**

Title	<b>Considerations on COM reference model</b>
Presenters	Tobey P.-R. Li
URL	<a href="https://www.ieee802.org/3/dj/public/23_09/lit_3dj_01a_2309.pdf">https://www.ieee802.org/3/dj/public/23_09/lit_3dj_01a_2309.pdf</a>

Questions were asked and answered.

#### **Presentation #10**

Title	<b>Considerations for the choice of eta0</b>
Presenters	Adam Healey
URL	<a href="https://www.ieee802.org/3/dj/public/23_09/healey_3dj_01_2309.pdf">https://www.ieee802.org/3/dj/public/23_09/healey_3dj_01_2309.pdf</a>

Questions were asked and answered.

Chair reminded participants of the updated agenda for Tuesday, 12 September.

Chair noted that requests for straw polls and motions should be sent to the leadership team. The requests would be prioritized by leadership and are subject to time availability.

Chair noted that he posted a proposed response to the Ultra Ethernet Consortium liaison. He asked participants to review it and send feedback to him. (see: [https://www.ieee802.org/3/dj/public/23\\_09/dambrosia\\_3dj\\_01\\_2309\\_Redacted.pdf](https://www.ieee802.org/3/dj/public/23_09/dambrosia_3dj_01_2309_Redacted.pdf))

Meeting recessed for the day at 5:29 p.m.

**12 September 2023**

Meeting reconvened at 9:00 a.m. BRT.

Chair made opening comments and reviewed the plans for the day. (see: [https://www.ieee802.org/3/dj/public/23\\_09/agenda\\_3cwfdfj\\_a\\_2309.pdf](https://www.ieee802.org/3/dj/public/23_09/agenda_3cwfdfj_a_2309.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 reminded in-person attendees of their name badges and provided an update on the network status.

Chair reviewed the updated presentation agenda.

Chair reminded participants to sign into the IEEE Meeting Attendance Tool for Task Force attendance credit. Kent Lusted noted that neither he nor the WG Recording Secretary Jon Lewis would update attendance records after the meeting ends for the day. The IMAT information would be shared at the start of the meeting as well as at meeting breaks.

#### **Presentation #11**

Title	<b>200G AUI C2M System Application and Chanel Model Update</b>
Presenters	Upen Reddy Kareti
URL	<a href="https://www.ieee802.org/3/dj/public/23_09/kareti_3dj_01_2309.pdf">https://www.ieee802.org/3/dj/public/23_09/kareti_3dj_01_2309.pdf</a>

Kent Lusted noted that the channels from Upen Reddy Kareti had been posted to the 3dj Tools and Channels website. (see: [https://www.ieee802.org/3/dj/public/tools/c2m/kareti\\_3dj\\_02\\_2309.zip](https://www.ieee802.org/3/dj/public/tools/c2m/kareti_3dj_02_2309.zip))

Questions were asked and answered.

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

#### **Presentation #12**

Title	<b>A 212.5 Gbps-PAM4 Chip-to-Module Channel for "Universal Port" and Its Characteristics: Design C</b>
Presenters	Mike Li
URL	<a href="https://www.ieee802.org/3/dj/public/23_09/lim_3dj_01_2309.pdf">https://www.ieee802.org/3/dj/public/23_09/lim_3dj_01_2309.pdf</a>

Questions were asked and answered.

#### **Presentation #13**

Title	<b>212.5 Gbps-PAM4 Chip-to-Module Link Simulation and Analysis with a "Universal Port" Channel: Design C</b>
Presenters	Mike Li
URL	<a href="https://www.ieee802.org/3/dj/public/23_09/lim_3dj_02_2309.pdf">https://www.ieee802.org/3/dj/public/23_09/lim_3dj_02_2309.pdf</a>

Questions were asked and answered.

Chair noted that he posted a proposed response to the Ultra Ethernet Consortium liaison. He asked participants to review it and send feedback to him. (see: [https://www.ieee802.org/3/dj/public/23\\_09/dambrosia\\_3dj\\_01\\_2309\\_Redacted.pdf](https://www.ieee802.org/3/dj/public/23_09/dambrosia_3dj_01_2309_Redacted.pdf))

Prior to the start of the presentation, the author noted an update with technical changes to add notes and correct file references. He would provide an updated version '02a'. Chair asked if there was objection to hearing the updated contribution. No one responded.

#### **Presentation #14**

Title	<b>200 Gbps/lane AUI C2M Channel Selection Criteria Update – Sept 2023</b>
Presenters	Kent Lusted
URL	<a href="https://www.ieee802.org/3/dj/public/23_09/lusted_3dj_02a_2309.pdf">https://www.ieee802.org/3/dj/public/23_09/lusted_3dj_02a_2309.pdf</a>

Questions were asked and answered.

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

Break at 10:26 a.m. Resumed at 10:55 a.m.

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

#### **Presentation #15**

Title	<b>Baseline proposal for chip-to-module attachment unit interface (AUI-C2M) at 200 Gb/s per lane</b>
Presenters	Adee Ran
URL	<a href="https://www.ieee802.org/3/dj/public/23_09/ran_3dj_01a_2309.pdf">https://www.ieee802.org/3/dj/public/23_09/ran_3dj_01a_2309.pdf</a>

Questions were asked and answered.

Chair reminded participants of decorum and the IEEE Code of Ethics.

Chair noted that there were network issues. He would take a short meeting break to address it.

Break at 11:41 a.m. Resumed 11:50 a.m.

#### **Presentation #16**

Title	<b>Toward AUI C2M Baseline Assuming Two Package Classes</b>
Presenters	Ali Ghiasi
URL	<a href="https://www.ieee802.org/3/dj/public/23_09/ghiasi_3dj_02a_2309.pdf">https://www.ieee802.org/3/dj/public/23_09/ghiasi_3dj_02a_2309.pdf</a>

Author noted an error on slide 11 and would provide an updated version '02a'.

Questions were asked and answered.

Kent Lusted noted that he would like to defer the "200G/lane AUI C2M IL target" contribution to later in the week, pending time availability. Chair asked if there was any objection. No one responded.



### Presentation #17

Title	200G/lane AUI BER Allocation for Type 1 and Type 2 PHYs
Presenters	Kent Lusted
URL	<a href="https://www.ieee802.org/3/dj/public/23_09/lusted_3dj_05_2309.pdf">https://www.ieee802.org/3/dj/public/23_09/lusted_3dj_05_2309.pdf</a>

Questions were asked and answered.

Break at 12:51 p.m. Resumed at 2:30 p.m.

### Straw Poll #3:

For AUIs inside a Type 1 or Type 2 PHY, I believe it is important to support:

A: One AUI or zero AUI (i.e. does not support two AUIs)

B: Two AUIs, one AUI, or zero AUI

C: Abstain

Results (all): A: 11 , B: 45, C: 28

### Straw Poll #4:

For the DER\_0 allocation of AUIs inside Type 1 and Type 2 PHYs, I would prefer the direction of a:

A. Choice A1: "always one value" 50%/50% (e.g. lusted\_3dj\_05\_2309, slide 9)

B. Choice A2: "always one value" x/y (e.g. lusted\_3dj\_05\_2309, slide 10)

C. Choice B1: "one of two values" 50%/50% or 100% (e.g. lusted\_3dj\_05\_2309, slide 11)

D. Choice B2: "one of two values" x/y or 100% (e.g. lusted\_3dj\_05\_2309, slide 12)

E. Abstain

(Chicago Rules)

Results (all): A: 8, B: 42, C: 9, D: 44, E: 21

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

### Presentation #18

Title	Inner Codeword Self-sync Proposal
Presenters	Xiang He
URL	<a href="https://www.ieee802.org/3/dj/public/23_09/he_3dj_01a_2309.pdf">https://www.ieee802.org/3/dj/public/23_09/he_3dj_01a_2309.pdf</a>

Questions were asked and answered.

Chair noted that Srihar Ramesh was not available. Chair asked if there was opposition to hearing Zvi Rechtman's contribution next. No one responded. The order was changed.

Prior to the start of the presentation, the author noted an update with additional supporters. He would provide an updated version '01a'.

### Presentation #19

Title	Pad insertion with 8:1 Hamming Interleaver for Inner FEC
Presenters	Zvi Rechtman
URL	<a href="https://www.ieee802.org/3/dj/public/23_09/rechtman_3dj_01a_2309.pdf">https://www.ieee802.org/3/dj/public/23_09/rechtman_3dj_01a_2309.pdf</a>

Questions were asked and answered.

Break at 3:32 p.m. Resumed 4:00 p.m.

Chair notified the in-person attendees of a Bosch-hosted social event on Wednesday at 6:30 p.m.

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

Chair reminded participants that the Tuesday meeting may run until 5:30 p.m. as announced on Monday.

There was a request to defer the contribution from Sridhar Ramesh to Wednesday or Thursday. Chair indicated that he could not guarantee that time would be available. The contribution was deferred.

### Straw Poll #5:

I would support the self-sync method for inner FEC as described in pages 7-11 of he\_3dj\_01a\_2309.

Results (all): Y: 50, N: 0, A: 30

### Straw Poll #6:

I would support the proposal of Inner FEC Pad insertion changes of pad block from 384 bits to 1024 bits (8 Inner FEC CWs) and insertion period from 3264 CWs to 8704 CWs, including 8:1 Hamming interleaver protection for pad bits, as shown in rechtman\_3dj\_01a\_2309 slides 5-7 and 10.

Results (all): Y: 50, N: 0, NMI: 4, A: 26

### Straw Poll #7:

For the case when the AUI DER\_0 is split across the C2M and the C2C on a host, I would prefer the allocation of:

- A. C2C = 0.67E-5 and C2M = 2E-5
- B. C2C = 0.87E-5 and C2M = 1.8E-5
- C. C2C = 1.33E-5 and C2M = 1.33E-5
- D. Abstain

(chicago rules) Results (all): A: 54, B: 23, C: 7, D: 27

(pick one) Results (all): A: 44, B: 7, C: 4, D: 27

**Straw Poll #8:**

For the DER\_0 allocation of AUIs inside Type 1 and Type 2 PHYs, I would prefer the direction of a:

- A. Choice A2: “always one value”  $C2C = 0.67E-5$  and  $C2M = 2E-5$
- B. Choice B2: “one of two values” as follows
  - $C2C = 0.67E-5$  and  $C2M = 2E-5$  (if two AUIs)
  - $C2C$  or  $C2M = 2.67E-5$  (if one AUI)
- C. Abstain

(Pick one)

Results (all): A: 39, B: 21 , C: 21

Chair reminded participants of the 9:00 a.m. meeting start time on Wednesday. The meeting would begin with the optical topics.

Meeting recessed for the day at 5:13 p.m.

### 13 September 2023

Meeting reconvened at 9:01 a.m. BRT.

Chair made opening comments and reviewed the plans for the day. (see: [https://www.ieee802.org/3/dj/public/23\\_09/agenda\\_3cwfdfj\\_a\\_2309.pdf](https://www.ieee802.org/3/dj/public/23_09/agenda_3cwfdfj_a_2309.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 reminded participants of the Bosch-hosted social on Wednesday night.

Chair reviewed the updated plans for the day. He noted that the website had updated contributions. He also noted an updated 3dj editors report and 3df preliminary editors report from Matt.

Chair noted that he had not yet made a decision on Thursday, 21 September contingent interim meeting. He would provide an update later.

Chair reminded participants to sign into the IEEE Meeting Attendance Tool for Task Force attendance credit. Kent Lusted noted that neither he nor the WG Recording Secretary Jon Lewis would update attendance records after the meeting ends for the day. The IMAT information would be shared at the start of the meeting as well as at meeting breaks.

Chair noted that the in-person attendees would have IMAT access issues due to network configuration issues. The IEEE 802.3 leadership team was working on the issue and would provide an update.

Chair noted that he posted an updated proposed response to the Ultra Ethernet Consortium liaison. He asked participants to review it and send feedback to him.. (see:

[https://www.ieee802.org/3/dj/public/23\\_09/dambrosia\\_3dj\\_01b\\_2309\\_Redacted.pdf](https://www.ieee802.org/3/dj/public/23_09/dambrosia_3dj_01b_2309_Redacted.pdf))

#### Presentation #20

Title	IEEE P802.3dj Joint Logic / Optics Ad hoc Update
Presenters	Mark Nowell
URL	<a href="https://www.ieee802.org/3/dj/public/23_09/nowell_3dj_01_2309.pdf">https://www.ieee802.org/3/dj/public/23_09/nowell_3dj_01_2309.pdf</a>

Questions were asked and answered.

#### Presentation #21

Title	Optical Specifications for Different FEC Modes at 200G/L - Methodology
Presenters	Brian Welch
URL	<a href="https://www.ieee802.org/3/dj/public/23_09/welch_3dj_01a_2309.pdf">https://www.ieee802.org/3/dj/public/23_09/welch_3dj_01a_2309.pdf</a>

Author noted an error with the footer on slide #14 and would provide an updated version '01a'.

Questions were asked and answered.

Break at 10:20 a.m. Resumed at 10:42 a.m.

Prior to start of presentation #22, the author noted an editorial error in version '03a'. He would provide an updated '03b'.

#### **Presentation #22**

Title	<b>Baseline Proposals for 200G/L PMD Specifications for Single Wavelength 500m and 2km Standards</b>
Presenters	Brian Welch
URL	<a href="https://www.ieee802.org/3/dj/public/23_09/welch_3dj_03b_2309.pdf">https://www.ieee802.org/3/dj/public/23_09/welch_3dj_03b_2309.pdf</a>

Questions were asked and answered.

Chair noted that the contribution from Greg LeCheminant was updated with lots of new supporting data for review by the Task Force. The updated contribution was posted to the website. (see: [https://www.ieee802.org/3/dj/public/23\\_09/lecheminant\\_3dj\\_01a\\_2309.pdf](https://www.ieee802.org/3/dj/public/23_09/lecheminant_3dj_01a_2309.pdf) )

#### **Presentation #23**

Title	<b>Enablement of multiple FEC modes for 200 Gb/s per lane, 500m and 2km optical PMDs.</b>
Presenters	Eric Bernier
URL	<a href="https://www.ieee802.org/3/dj/public/23_09/bernier_3dj_01_2309.pdf">https://www.ieee802.org/3/dj/public/23_09/bernier_3dj_01_2309.pdf</a>

Questions were asked and answered.

Prior to the start of presentation #24, the author noted that he had an updated version '02a' with additional supporters.

#### **Presentation #24**

Title	<b>800G-FR4 without Inner FEC - Market Needs</b>
Presenters	Brian Welch
URL	<a href="https://www.ieee802.org/3/dj/public/23_09/welch_3dj_02a_2309.pdf">https://www.ieee802.org/3/dj/public/23_09/welch_3dj_02a_2309.pdf</a>

Author noted a typo on slide 4 and would correct it in version '02a'.

Questions were asked and answered.

Prior to the start of presentation #25, the author noted that he had an updated version '04b' with additional supporters.

#### **Presentation #25**

Title	<b>Baseline Proposals for 800GBASE-FR4</b>
Presenters	Brian Welch
URL	<a href="https://www.ieee802.org/3/dj/public/23_09/welch_3dj_04b_2309.pdf">https://www.ieee802.org/3/dj/public/23_09/welch_3dj_04b_2309.pdf</a>

Questions were asked and answered.

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

The Recording Secretary announced that he would manually record the attendance for in-person attendees due to the network connectivity issues.

Prior to Straw Poll #9, the Chair noted that the straw poll #9 had a hard stop at 12:54 p.m. The queue would be terminated at that time.

**Straw Poll #9:**

Is there a market need for both FECo and FECi modes

Results (all): Y: 48, N: 17, NMI: 21, A: 18

Break at 12:57 p.m. resumed at 2:15 p.m.

Chair noted that the contribution from Anil Mehta would not be heard due to presenter availability issues. Chair noted that the contribution from Ali Ghiasi would be delayed until after the break due to straw polls. There were no objections.

**Straw Poll #10:**

Does the market need the FECo mode for a PMD to have same reach as the FECi mode (for single wavelength reaches under 2km)?

Results (all): Y: 36 ,N: 28 , A: 37

**Straw Poll #11:**

Considering the network operators deploying a FECi and FECo capable solution, do FECo mode reaches need to be specified in the standard as:

- A. Normative
- B. Informative
- C. Not specified
- D. Abstain

(pick one) Results (all): A: 40, B: 21, C: 17, D: 20

(chicago rules) Results (all): A: 50, B: 42, C: 25, D: 20

Break at 3:32 p.m. Resumed at 4:00 p.m.

Chair provided an update on the network status for the in-person attendees. The network does not currently allow access to DVL or IMAT. Chair reviewed the voting procedures. Reviewed the options for voting on motions per the IEEE rules.

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

Recording Secretary displayed the preliminary IMAT attendance record for the Wednesday meeting. He asked the in-person attendees to confirm that their attendance was recorded correctly. He asked for a show of hands from in-person attendees that were not listed correctly. No one indicated.

#### **Presentation #26**

Title	<b>Extending Link Configuration and Training to Optical PMDs</b>
Presenters	Ali Ghiasi
URL	<a href="https://www.ieee802.org/3/dj/public/23_09/ghiasi_3dj_01a_2309.pdf">https://www.ieee802.org/3/dj/public/23_09/ghiasi_3dj_01a_2309.pdf</a>

Questions were asked and answered.

#### **Presentation #27**

Title	<b>The effect of AUI error propagation on required optical error rate.</b>
Presenters	Mike Dudek
URL	<a href="https://www.ieee802.org/3/dj/public/23_09/dudek_3dj_01_2309.pdf">https://www.ieee802.org/3/dj/public/23_09/dudek_3dj_01_2309.pdf</a>

Questions were asked and answered.

Chair reminded in-person attendees of the Bosch-hosted social

Chair noted that the contribution from Greg LeCheminant was updated with lots of new supporting data for review by the Task Force. The contribution would be heard on Thursday morning. (see: [https://www.ieee802.org/3/dj/public/23\\_09/lecheminant\\_3dj\\_01a\\_2309.pdf](https://www.ieee802.org/3/dj/public/23_09/lecheminant_3dj_01a_2309.pdf) )

Chair noted that he posted an updated proposed response to the Ultra Ethernet Consortium liaison. He asked participants to review it and send feedback to him.. (see: [https://www.ieee802.org/3/dj/public/23\\_09/dambrosia\\_3dj\\_01b\\_2309\\_Redacted.pdf](https://www.ieee802.org/3/dj/public/23_09/dambrosia_3dj_01b_2309_Redacted.pdf))

Chair reminded participants of the forthcoming contingent meeting on 21 September. He planned to keep the meeting to address the remaining agenda items and conduct straw polls and motions.

Chair also set time on Thursday to discuss the options forward to progress the P802.3df and P802.3dj Task Forces forward. There were implications to discuss.

Meeting recessed for the day at 5:31 p.m.

**14 September 2023**

Meeting reconvened at 9:04 a.m. BRT.

Chair made opening comments and reviewed the plans for the day. (see: [https://www.ieee802.org/3/dj/public/23\\_09/agenda\\_3cwfdfj\\_a\\_2309.pdf](https://www.ieee802.org/3/dj/public/23_09/agenda_3cwfdfj_a_2309.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.

Kent Lusted provided an update on the network status to the in-person attendees. Access to DVI and IMAT was restored. He asked in-person participants that still had network issues to contact him.

Chair thanked the hosts for the social on Wednesday night.

Chair reminded participants to sign into the IEEE Meeting Attendance Tool for Task Force attendance credit. Kent Lusted noted that neither he nor the WG Recording Secretary Jon Lewis would update attendance records after the meeting ends for the day.

Chair noted that he had implemented all of the feedback on the proposed liaison response to the Ultra Ethernet Consortium.

Chair announced that the meeting on 21 September would be held and a message would be sent to the reflector. Chair reminded participants of the forthcoming contingent meeting on 21 September. He planned to keep the meeting to address the remaining agenda items and conduct straw polls and motions. Chair asked participants to work offline to build consensus before the next meeting.

Chair noted that the contribution from Srihar Ramesh and the contribution from Anil Mehta would be scheduled for the 21 September meeting.

Chair noted that he received an updated contribution from Roberto Rodes with technical changes. He asked if there was opposition to hearing the contribution. No one responded.

Prior to the start of presentation #28, the author noted that there were editorial changes to correct typos and a reference. He would send an updated version '01b'.

**Presentation #28**

Title	Physical measurements for TDECQ versus SER
Presenters	Greg Lecheminant
URL	<a href="https://www.ieee802.org/3/dj/public/23_09/lecheminant_3dj_01b_2309.pdf">https://www.ieee802.org/3/dj/public/23_09/lecheminant_3dj_01b_2309.pdf</a>

Questions were asked and answered.

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



### Presentation #29

Title	<b>Towards an 800G-LR4 IMDD Specification Consensus - September 2023 update</b>
Presenters	Roberto Rodes
URL	<a href="https://www.ieee802.org/3/dj/public/23_09/rodes_3dj_01a_2309.pdf">https://www.ieee802.org/3/dj/public/23_09/rodes_3dj_01a_2309.pdf</a>

Questions were asked and answered.

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

Break at 10:15 a.m. Resumed at 10:35 a.m.

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

### Presentation #30

Title	<b>Update on key technical decisions for the 802.3dj coherent optical objectives</b>
Presenters	Eric Maniloff
URL	<a href="https://www.ieee802.org/3/dj/public/23_09/maniloff_3dj_01a_2309.pdf">https://www.ieee802.org/3/dj/public/23_09/maniloff_3dj_01a_2309.pdf</a>

Author noted an error and would provide updated version '01a'.

Questions were asked and answered.

Chair asked in-person participants if there was objection to moving the in-person lunch to 12:30 p.m. local time to avoid the expected weather. No one objected.

Chair noted that the review of the proposed liaison to the Ultra Ethernet Consortium

### Presentation #31

Title	<b>IEEE P802.3df Chief Editor's Report</b>
Presenters	Matt Brown
URL	<a href="https://www.ieee802.org/3/df/public/23_09/brown_3df_02a_2309.pdf">https://www.ieee802.org/3/df/public/23_09/brown_3df_02a_2309.pdf</a>

Author noted a spelling error in version '02' and would provide an updated '02a'. Chair asked the Chief Editor if there were any showstopper issues in D3.0. The Chief Editor indicated there were two clusters on the topics of FEC degrade and delay; none were showstoppers.

Questions were asked and answered.

### Presentation #32

Title	<b>P802.3df D3.0 Comment Resolution Agenda (Preliminary)</b>
Presenters	Matt Brown
URL	<a href="https://www.ieee802.org/3/df/public/23_09/brown_3df_01a_2309.pdf">https://www.ieee802.org/3/df/public/23_09/brown_3df_01a_2309.pdf</a>

The Chief Editor indicated that there might be a bucket2 for consideration by the Task Force.

Questions were asked and answered.

Chair thanked the editorial team for their hard work to prepare the P802.df draft specifications.

### Presentation #33

Title	IEEE P802.3dj Chief Editor's Report
Presenters	Matt Brown
URL	<a href="https://www.ieee802.org/3/dj/public/23_09/brown_3dj_01_2309.pdf">https://www.ieee802.org/3/dj/public/23_09/brown_3dj_01_2309.pdf</a>

Questions were asked and answered.

Prior to Motion #1, Chair asked if there were any other requests to pull comments from bucket1. No one responded.

Chair noted that motions would be taken with the Direct Vote Live tool if there was not unanimous consent. Chair asked if there would be opposition to attempt the vote by unanimous consent. No one responded.

<b>Motion #1</b>	Move to adopt the proposed responses for P802.3df D3.0 comment resolution in <a href="https://www.ieee802.org/3/df/comments/D3p0/8023df_D3p0_comments_bucket1_clause.pdf">https://www.ieee802.org/3/df/comments/D3p0/8023df_D3p0_comments_bucket1_clause.pdf</a> except # i-57, i-43, i-79, i-44, i-10, i-12, i-13, i-14, i-117, i-72 and i-132
<b>Technical (&gt;= 75%)</b>	
<b>Moved by</b>	Matt Brown
<b>Second by</b>	Piers Dawe
<b>Results 802.3 (y/n/a)</b>	Passed by unanimous consent. 11:59 a.m.

Meeting chair responsibilities passed to Mark Nowell.

Chair reviewed the proposed liaison to Ultra Ethernet Consortium from the P802.3dj Task Force. (see: [https://www.ieee802.org/3/dj/public/23\\_09/dambrosia\\_3dj\\_01b\\_2309\\_Redacted.pdf](https://www.ieee802.org/3/dj/public/23_09/dambrosia_3dj_01b_2309_Redacted.pdf)) The file was saved with the Working Group naming convention. (see: [https://www.ieee802.org/3/dj/public/23\\_09/IEEE\\_802d3\\_to\\_UEC\\_3dj\\_0923\\_Redacted.pdf](https://www.ieee802.org/3/dj/public/23_09/IEEE_802d3_to_UEC_3dj_0923_Redacted.pdf))

Chair noted that motions would be taken with the Direct Vote Live tool if there was not unanimous consent. Chair asked if there would be opposition to attempt the vote by unanimous consent. There was opposition.

<b>Motion #2</b>	Move that the P802.3dj Task Force approve: <ul style="list-style-type: none"><li>IEEE_802d3_to_UEC_3dj_0923_Redacted.pdf with editorial license granted to the Chair (or his appointed agent) as liaison communications from the IEEE 802.3 Working Group to UEC.</li></ul>
<b>Technical (&gt;= 75%)</b>	
<b>Moved by</b>	Eugene Opsasnick
<b>Second by</b>	Adee Ran
<b>Results 802.3 (y/n/a)</b>	Y: 71, N: 2 A: 6 Passed at 12:27 p.m.

Votes for motion #2 were:

<b>Attendee</b>	<b>Vote</b>
Adam Healey	Yes
Adee Ran	Yes
Ali Ghiasi	No
Angela Lambert	Yes
Cathy Liu	Yes
Chan Chen	Yes
Charles Moorwood	Yes
Chendi Jiang	Yes
Chris Diminico	Yes
Chul Soo Park	Yes
David Estes	Yes
David Ofelt	Yes
Earl Parsons	Yes
Edward Sprague	Yes
Eric Bernier	Yes
Eric Kimber	Yes
Eric Maniloff	Yes
Ernest Muhigana	Yes
Eugene Opsasnick	Yes
Eyal Lieder	Yes
Gary Nicholl	Yes
Golam Choudhury	Yes
Guangcan Mi	Yes
Hao Ren	Abstain
Hideki Isono	Yes
Ian Cox	Yes

Attendee	Vote
Jeffery Maki	Yes
Jim Theodoras	Yes
Jim Weaver	Yes
John Deandrea	Yes
John Johnson	Yes
Jonathan Ingham	Abstain
Jose Castro	Yes
Joshua Kim	Yes
Kapil Shrikhande	Abstain
Kenneth Jackson	Yes
Leon Bruckman	Abstain
Liav Ben-Artzi	Yes
Mark Gustlin	Yes
Mark Sikkink	Yes
Massimo Sorbara	Yes
Matthew Brown	Yes
Mau-Lin Wu	Yes
Megha Shanbhag	Yes
Michael Dudek	Yes
Michael Wingrove	Yes
Mike Li	Yes
Nathan Tracy	Yes
Olindo Savi	Yes
Pei-Rong Li	Yes
Peter Del Vecchio	Yes
Peter Stassar	Yes
Piers J G Dawe	No

<b>Attendee</b>	<b>Vote</b>
Pirooz Tooyserkani	Yes
Priyank Shukla	Yes
Richard Mellitz	Yes
Rick Rabinovich	Yes
Sam Kocsis	Yes
Scott Sommers	Yes
Shawn Nicholl	Yes
Shimon Muller	Yes
Shuang Yin	Yes
Taiji Kondo	Yes
Tau Gui	Yes
Thomas Huber	Yes
Tom Issenhuth	Yes
Tomoo Takahara	Yes
Toshiaki Sakai	Yes
Ulf Parkholm	Yes
Upen Kareti	Yes
Viet Tran	Yes
William Klingensmith	Yes
William Simms	Yes
Xiang He	Yes
Xiang Liu	Yes
Yasuo Hidaka	Abstain
Yuanqiu Luo	Yes
Yung Sung Son	Yes
Zvi Rechtman	Abstain

Chair targeted a resume from break of 1:45 p.m. However, the meeting would not resume until the in-person attendees are available.

Break at 12:28 p.m. Resumed at 1:46 p.m.

Chair asked if there would be opposition to attempt the vote by unanimous consent. No one responded.

<b>Motion #3</b>	Move to adopt the self-sync method for inner FEC as described in pages 7-11 of he_3dj_01a_2309.
<b>Technical (<math>\geq 75\%</math>)</b>	
<b>Moved by</b>	Xiang He
<b>Second by</b>	Mark Gustlin
<b>Results 802.3 (y/n/a)</b>	Passed by unanimous consent. 1:50 p.m.

Chair asked if there would be opposition to attempt the vote by unanimous consent. No one responded.

<b>Motion #4</b>	Move to adopt the Inner FEC Pad insertion changes of pad block from 384 bits to 1024 bits (8 Inner FEC CWs) and insertion period from 3264 CWs to 8704 CWs, including 8:1 Hamming interleaver protection for pad bits, as shown in rechtman_3dj_01a_2309 slides 5-7 and 10.
<b>Technical (<math>\geq 75\%</math>)</b>	
<b>Moved by</b>	Zvi Rechtman
<b>Second by</b>	Xiang He
<b>Results 802.3 (y/n/a)</b>	Passed by unanimous consent. 1:54 p.m.

Chair asked if there would be opposition to attempt the vote by unanimous consent. No one responded.

<b>Motion #5</b>	Move to adopt the the CR host and cable assembly insertion loss budget proposed in diminico_3dj_01a_2309, slide 7 for the symmetrical CR use case.
<b>Technical (&gt;= 75%)</b>	
<b>Moved by</b>	Chris Diminico
<b>Second by</b>	Nathan Tracy
<b>Results 802.3 (y/n/a)</b>	Passed by unanimous consent. 1:57 p.m.

**Straw Poll #12:**

I would support the direction of including the CR host and cable assembly proposals for flexible host architectures and longer reach cables per slide 8 of diminico\_3dj\_01a\_2309.pdf

Results (all): Y: 56, N: 2, A: 20

Vice Chair reminded participants to declare their affiliation in the online meeting tool.

**Straw Poll #13:**

For the initial 200G/lane AUI C2M ILdd (die-die) target, I believe we should support losses of at least:

- A. 26 dB
- B. 28 dB
- C. 30 dB
- D. 32 dB
- E. 34 dB
- F. 36 dB
- G. 38 dB

(Chicago Rules)

Results (all): A: 23, B: 22, C: 29, D: 38, E: 24, F: 23, G: 6

**Straw Poll #14:**

For the initial 200G/lane AUI C2M ILdd (die-die) target, I believe we should support losses of at least:

- A. 26 dB
- B. 28 dB
- C. 30 dB
- D. 32 dB
- E. 34 dB
- F. 36 dB
- G. 38 dB

(Pick one)

Results (all): A: 0, B: 4, C: 13, D: 24, E: 9, F: 16, G: 3

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

Mark Nowell, optical track chair, led a discussion on potential data gathering for optical PMDs. The items were captured in lusted\_3dj\_07\_2309.pdf. (see: [https://www.ieee802.org/3/dj/public/23\\_09/lusted\\_3dj\\_07\\_2309.pdf](https://www.ieee802.org/3/dj/public/23_09/lusted_3dj_07_2309.pdf)) He asked participants to continue offline discussions and work to build consensus.

Chair provided the access information to the P802.3dj Task Force private area. He noted that the P802.3dj private area was for future use and the link was not yet active. The drafts are posted for participant review only.

Chief Editor Matt Brown indicated that the editorial team was considering a pre-D1.0 draft specification for P802.3dj. It would depend on editor work load. If created, it would be announced via the Task Force reflector.

#### **Presentation #34**

Title	<b>Path Forward for IEEE P802.3df / .3dj</b>
Presenters	John D'Ambrosia
URL	<a href="https://www.ieee802.org/3/dj/public/23_09/dambrosia_3dj_02_2309.pdf">https://www.ieee802.org/3/dj/public/23_09/dambrosia_3dj_02_2309.pdf</a>

Chair noted the number of comments against P802.3df D3.0. He noted that there was a potential path to request conditional approval for P802.3df at the November 2023 Plenary. He noted that he was not asking participants to withhold comments against the draft. He reiterated that there was a plan to move forward if there are minimal comments and there was a plan to move forward in the case of a large number of comments. Chair noted that participants were supportive of the P802.3df direction at the July Plenary. He noted that he was providing a set of schedule options for the participants to consider. He asked for feedback on the options. There was feedback. Chair noted that the proposed schedule for the November 2023 Plenary would have approximately 1 day to 1.5 days of comment resolution on P802.3df D3.1. There was support for the approach.

Questions were asked and answered.

Chair reviewed future meetings (see slide #26 of agenda). The 21 September electronic meeting was confirmed by the Chair.

Chair reviewed future ad hoc meetings (see slide #27 of agenda). Details would be sent to the email reflectors.

Chair thanked participants for a successful meeting.

Chair noted that the meeting agenda was complete.

Meeting adjourned at 3:37 p.m.



## Attendees

Day	Name	Employer	Affiliation
9/11	Arndt, Christoph		Continental Automotive Technologies GmbH
9/11	BARSKY, greg		Broadcom Corporation
9/11	Beauregard, Francois	Belden Canada ULC	Belden
9/11	Ben-Artzi, Liav	Marvell Semiconductor, Inc.	Marvell Semiconductor, Inc.
9/11	Bernier, Eric	Huawei Technologies Canada Co., Ltd.	Huawei Technologies Canada Co., Ltd.
9/11	Brooks, Paul	Viavi solutions GmbH	Viavi Solutions
9/11	Brown, Matthew	Alphawave	Alphawave
9/11	Bruckman, Leon	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
9/11	Calvin, John	Keysight Technologies	Keysight Technologies
9/11	Castro, Jose	Panduit	Panduit Corp.
9/11	Chang, Yongmao	Inphi Corporation	Source Photonics
9/11	Chen, Chan	Self Employed	Independent/AOI
9/11	Chini, Ahmad	Broadcom Corporation	Broadcom Corporation
9/11	Choudhury, Golam	OFS	OFS
9/11	Cox, Ian		Broadcom Corporation
9/11	D'Ambrosia, John	Futurewei Technologies, U.S. Subsidiary of Huawei	Futurewei Technologies, U.S. Subsidiary of Huawei
9/11	Dawe, Piers J G	NVIDIA	Nvidia
9/11	Deandrea, John	Finisar Corporation	Finisar Corporation
9/11	de Koos,	Microchip Technology Inc	Microchip Technology, Inc.

Day	Name	Employer	Affiliation
	Andras		
9/11	Del Vecchio, Peter		Broadcom Corporation
9/11	Diminico, Christopher	M C Communications, LLC	Panduit Corp.
9/11	Djahanshahi, Hormoz	Microchip Technology, Inc.	Microchip Technology, Inc.
9/11	Dudek, Michael	Marvell	Marvell
9/11	Estes, David	Spirent Communications	Spirent Communications
9/11	FUKUSHIMA, TAKAHITO	Dexerials Corporation	Dexerials Corporation
9/11	Ghiasi, Ali	Ghiasi Quantum LLC	Ghiasi Quantum LLC; Marvell Semiconductor, Inc.
9/11	Gore, Brandon	Samtec, Inc.	Samtec, Inc.
9/11	Gorshe, Steven Scott	Microchip Technology, Inc.	Microchip Technology, Inc.
9/11	Gui, Tao		Huawei Technologies Co., Ltd
9/11	Gustlin, Mark	Cisco Systems, Inc.	Cisco Systems, Inc.
9/11	Harshbarger, Douglas		Corning Incorporated
9/11	He, Xiang	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
9/11	Healey, Adam	Broadcom Inc.	Broadcom Inc.
9/11	Hidaka, Yasuo	Credo Semiconductor	Credo Semiconductor
9/11	Hogenmueller, Thomas	Robert Bosch GmbH	Robert Bosch GmbH
9/11	Huang, Kechao	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
9/11	Huber, Thomas	Nokia	Nokia
9/11	Ingham,	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd

Day	Name	Employer	Affiliation
	Jonathan		
9/11	Isono, Hideki	Fujitsu Optical Components Limited	Fujitsu Optical Components Limited
9/11	Issenhuth, Tom	Issenhuth Consulting, LLC	Huawei Technologies Co., Ltd
9/11	Jiang, Chendi	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
9/11	Jiang, Chenhui	Sicoya	Sicoya
9/11	Jones, Peter	Cisco Systems, Inc.	Cisco Systems, Inc.
9/11	Jonsson, Ragnar	Marvell Semiconductor, Inc.	Marvell
9/11	Kim, Kihong/Joshua	Hirose Electric (USA), Inc.	Hirose Electric (USA), Inc.
9/11	Klingensmith, William	U.S. Federal Government	DoD
9/11	Koch, Lavi		Lavi Koch Nvidia
9/11	Kocsis, Sam	Amphenol Corporation	Amphenol Corporation
9/11	Kondo, Taiji	MegaChips Corporation	Dexerials Corporation
9/11	Kota, Kishore	Marvell Semiconductor, Inc.	Marvell Semiconductor, Inc.
9/11	Lackner, Hans	QoSCom GmbH	QoSCom GmbH
9/11	Lambert, Angela	Corning Incorporated	Corning Incorporated
9/11	Lawson, Matthew	Cisco Systems, Inc.	Cisco Systems, Inc.
9/11	Le Cheminant, Greg	Keysight Technologies	Keysight Technologies
9/11	Li, Mike-Peng	Intel	Intel
9/11	Li, Pei-Rong	MediaTek Inc.	MediaTek Inc.
9/11	Lieder, Eyal	Marvell Semiconductor, Inc.	Marvell Semiconductor, Inc.
9/11	Liu, Cathy	Broadcom Corporation	Broadcom Corporation

Day	Name	Employer	Affiliation
9/11	Liu, Karen	Nubis Communications	Nubis Communications
9/11	Lu, Yuchun	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
9/11	Lusted, Kent	Intel	Intel
9/11	Maki, Jeffery	Juniper Networks, Inc.	Juniper Networks, Inc.
9/11	Malicoat, David	Malicoat Networking Solutions	Malicoat Networking Solutions; SENKO Advanced Components
9/11	Martino, Kjersti	Inneos	Inneos
9/11	Mellitz, Richard	Samtec, Inc.	Samtec, Inc.
9/11	Moorwood, Charles	Keysight Technologies	Keysight Technologies
9/11	Muhigana, Ernest		Lumentum
9/11	Muller, Shimon	Enfabrica Corp.	Enfabrica
9/11	MURAKAMI, YUKI	FUJITSU LIMITED	Fujitsu Limited
9/11	Murty, Ramana	Broadcom Inc.	Broadcom Corporation
9/11	Muth, Karlheinz	Broadcom Corporation	Broadcom Corporation
9/11	Naderi Shahi, Sina		Marvell
9/11	Nakamoto, Edward	Spirent Communications	Spirent Communications
9/11	Nicholl, Gary	Cisco Systems, Inc.	Cisco Systems, Inc.
9/11	Nicholl, Shawn	Advanced Micro Devices (AMD)	Advanced Micro Devices (AMD)
9/11	NIIHARA, YOSHIHIRO	Fujikura Ltd.	Fujikura Ltd.

Day	Name	Employer	Affiliation
9/11	Ninomiya, Takuya		Senko Advanced Components
9/11	Noujeim, Leesa	Google	Google
9/11	Nowell, Mark	Cisco Systems, Inc.	Cisco Systems, Inc.
9/11	Ofelt, David	Juniper Networks, Inc.	Juniper Networks, Inc.
9/11	OGAWA, SHOJI	Fujitsu Optical Components Limited	FUJITSU
9/11	Omori, Kumi	NEC Corporation	NEC Corporation
9/11	Opsasnick, Eugene	Broadcom Inc.	Broadcom Inc.
9/11	Palkert, Thomas	Macom,&nbsp;Samtec	Samtec-Macom
9/11	Pandey, Sujan	Huawei Technologies (Netherlands) B.V.	Huawei Technologies (Netherlands) B.V.
9/11	PARK, CHUL SOO	Juniper Networks Inc.	Juniper Networks, Inc.
9/11	Parkholm, Ulf	Telefon AB LM Ericsson	Telefon AB LM Ericsson
9/11	Parthasarathy, Vasu	Broadcom Corporation	Broadcom Corporation
9/11	Patra, lenin	Marvell Semiconductor, Inc.	Marvell Semiconductor, Inc.
9/11	peng, semmy		Huawei Technologies Co., Ltd
9/11	Rabinovich, Rick	Keysight Technologies	Keysight Technologies
9/11	Ran, Adee	Cisco Systems, Inc.	Cisco Systems, Inc.
9/11	Razavi, Alireza	Marvell	Marvell
9/11	Rechtman, Zvi	NVIDIA	NVIDIA
9/11	Ren, Hao	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
9/11	Riani, Jamal		Marvell Semiconductor, Inc.
9/11	Rodes,	II-VI	II-VI

Day	Name	Employer	Affiliation
	Roberto		
9/11	Sakai, Toshiaki	Socionext Inc.	socionext
9/11	Savi, Olindo	Hubbell Incorporated	Hubbell Incorporated
9/11	SAWANO, Hiroshi	OITDA (Optoelectronics Industry and Technology Development Association)	OITDA
9/11	Sedarat, Hossein	Ethernovia	Ethernovia
9/11	Sekel, Steve		Wilder Technologies
9/11	Shah, Anup	Siemens Corporation	Siemens EDA
9/11	Shakiba, Mohammad	Huawei Technologies Canada	Huawei Technologies Canada; Huawei Technologies Co., Ltd
9/11	Shanbhag, Megha	Tyco	TE Connectivity
9/11	Sheffi, Nir	Alphawave	Alphawave
9/11	Shoval, Ayal	Synopsys, Inc.	Synopsys, Inc.
9/11	Shrikhande, Kapil	Marvell Semiconductor, Inc.	Marvell Semiconductor, Inc.
9/11	Shukla, Priyank	Synopsys, Inc.	Synopsys, Inc.
9/11	Sikkink, Mark	Hewlett Packard Enterprise	Hewlett Packard Enterprise
9/11	Simms, William	NVIDIA Corporation	NVIDIA Corporation
9/11	Sinn, Peter		Alphawave IP
9/11	Slavick, Jeff	Broadcom Inc	Broadcom Inc
9/11	Sluyski, Mike		Cisco Systems, Inc.
9/11	Sommers, Scott	Molex LLC	Molex Incorporated
9/11	Son, Yung Sung	Optomind Inc	Optomind Inc

Day	Name	Employer	Affiliation
9/11	Sorbara, Massimo	GLOBALFOUNDRIES	GLOBALFOUNDRIES
9/11	Sprague, Edward	Infinera Corporation	Infinera Corporation
9/11	Steyer-Ege, Janik	Robert Bosch GmbH	Robert Bosch GmbH
9/11	Sun, Junqing	Credo Semiconductor	Credo Semiconductor
9/11	Sun, Yi		OFS
9/11	Theodoras, James	HG Genuine	HG Genuine
9/11	Tooyserkani, Pirooz	Cisco Systems, Inc.	Cisco Systems, Inc.
9/11	Tracy, Nathan	TE Connectivity	TE Connectivity
9/11	Tran, Viet	Keysight Technologies	Keysight Technologies
9/11	Tsujita, Yuichi	Nitto Denko Corporation	Nitto, Inc.; New Business Development Division
9/11	Ulrichs, Ed	Intel	Intel
9/11	Wang, Haojie	China Mobile Communications Corporation (CMCC)	China Mobile Communications Corporation (CMCC)
9/11	Weaver, James	Arista Networks	Arista Networks
9/11	Welch, Brian	Cisco Systems, Inc.	Luxtera
9/11	Williams, Tom	Cisco Systems, Inc.	Cisco Systems, Inc.
9/11	Wingrove, Michael	Ciena Corporation	Ciena Corporation
9/11	Wu, Mau-Lin	MediaTek Inc.	MediaTek Inc.
9/11	Xu, Yu	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
9/11	Yin, Shuang		Google
9/11	Zhuang, Yan	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd

Day	Name	Employer	Affiliation
9/12	BakroNagy, Istvan	Cisco Systems, Inc.	Cisco Systems, Inc.
9/12	Barcante Teixeira, Thiago		Agencia Nacional de Telecomunicacoes - Brasil
9/12	BARSKY, greg		Broadcom Corporation
9/12	Ben-Artzi, Liav	Marvell Semiconductor, Inc.	Marvell Semiconductor, Inc.
9/12	Bernier, Eric	Huawei Technologies Canada Co., Ltd.	Huawei Technologies Canada Co., Ltd.
9/12	Brooks, Paul	Viavi solutions GmbH	Viavi Solutions
9/12	Brown, Matthew	Alphawave	Alphawave
9/12	Bruckman, Leon	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
9/12	Cai, Yuefeng	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
9/12	Calvin, John	Keysight Technologies	Keysight Technologies
9/12	Carlson, Steven	High-Speed Design Inc.	HSD, Robert Bosch GmbH, Ethernovia
9/12	Cassan, Dave	Alphawave	Alphawave
9/12	Castro, Jose	Panduit	Panduit Corp.
9/12	Chen, Chan	Self Employed	Independent/AOI
9/12	Choudhury, Golam	OFS	OFS
9/12	Cox, Ian		Broadcom Corporation
9/12	D'Ambrosia, John	Futurewei Technologies, U.S. Subsidiary of Huawei	Futurewei Technologies, U.S. Subsidiary of Huawei
9/12	Dawe, Piers J G	NVIDIA	Nvidia
9/12	Deandrea, John	Finisar Corporation	Finisar Corporation
9/12	de Koos,	Microchip Technology Inc	Microchip Technology, Inc.



Day	Name	Employer	Affiliation
	Andras		
9/12	Del Vecchio, Peter		Broadcom Corporation
9/12	Diminico, Christopher	M C Communications, LLC	Panduit Corp.
9/12	Djahanshahi, Hormoz	Microchip Technology, Inc.	Microchip Technology, Inc.
9/12	Dudek, Michael	Marvell	Marvell
9/12	Estes, David	Spirent Communications	Spirent Communications
9/12	Ferretti, Vincent	Corning Incorporated	Corning Incorporated
9/12	FUKUSHIMA, TAKAHITO	Dexerials Corporation	Dexerials Corporation
9/12	Gao, Xiangrong	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
9/12	Geng, Limin	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
9/12	Ghiasi, Ali	Ghiasi Quantum LLC	Ghiasi Quantum LLC; Marvell Semiconductor, Inc.
9/12	Gore, Brandon	Samtec, Inc.	Samtec, Inc.
9/12	Gorshe, Steven Scott	Microchip Technology, Inc.	Microchip Technology, Inc.
9/12	Gui, Tao		Huawei Technologies Co., Ltd
9/12	Gustlin, Mark	Cisco Systems, Inc.	Cisco Systems, Inc.
9/12	He, Xiang	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
9/12	Healey, Adam	Broadcom Inc.	Broadcom Inc.
9/12	Hidaka, Yasuo	Credo Semiconductor	Credo Semiconductor
9/12	Huang, Kechao	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
9/12	Huber, Thomas	Nokia	Nokia

Day	Name	Employer	Affiliation
9/12	Ingham, Jonathan	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
9/12	Isono, Hideki	Fujitsu Optical Components Limited	Fujitsu Optical Components Limited
9/12	Issenhuth, Tom	Issenhuth Consulting, LLC	Huawei Technologies Co., Ltd
9/12	Jackson, Kenneth	Sumitomo Electric Industries, LTD	Sumitomo Electric Industries, LTD
9/12	Jiang, Chendi	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
9/12	Jiang, Chenhui	Sicoya	Sicoya
9/12	Johnson, John	Broadcom Corporation	Broadcom Corporation
9/12	Jonsson, Ragnar	Marvell Semiconductor, Inc.	Marvell
9/12	Kao, Chienping	Intel	Cornelis Networks
9/12	Kareti, Upen	Cisco Systems, Inc.	Cisco Systems, Inc.
9/12	Kaseda, Yugo		Nitto Inc, Marketing
9/12	Kim, Kihong/Joshua	Hirose Electric (USA), Inc.	Hirose Electric (USA), Inc.
9/12	Kimber, Eric	Semtech Ltd	Semtech Ltd
9/12	Klingensmith, William	U.S. Federal Government	DoD
9/12	Koch, Lavi		Lavi Koch Nvidia
9/12	Kondo, Taiji	MegaChips Corporation	Dexerials Corporation
9/12	Kota, Kishore	Marvell Semiconductor, Inc.	Marvell Semiconductor, Inc.
9/12	Lambert, Angela	Corning Incorporated	Corning Incorporated
9/12	Lawson, Matthew	Cisco Systems, Inc.	Cisco Systems, Inc.
9/12	Le Cheminant, Greg	Keysight Technologies	Keysight Technologies

Day	Name	Employer	Affiliation
9/12	Lewis, Jon	Dell Technologies	Dell Technologies
9/12	Li, Mike-Peng	Intel	Intel
9/12	Li, Pei-Rong	MediaTek Inc.	MediaTek Inc.
9/12	Lieder, Eyal	Marvell Semiconductor, Inc.	Marvell Semiconductor, Inc.
9/12	Liu, Cathy	Broadcom Corporation	Broadcom Corporation
9/12	Liu, Karen	Nubis Communications	Nubis Communications
9/12	LIU, XIANG		Huawei Technologies Co., Ltd
9/12	Luo, Yuanqiu	Futurewei Technologies	Futurewei Technologies
9/12	Lusted, Kent	Intel	Intel
9/12	Maki, Jeffery	Juniper Networks, Inc.	Juniper Networks, Inc.
9/12	Malicoat, David	Malicoat Networking Solutions	Malicoat Networking Solutions; SENKO Advanced Components
9/12	Maniloff, Eric	Ciena Corporation	Ciena Corporation
9/12	Maruyama, Takuto	Mitsubishi Electric US, Inc	Mitsubishi Electric US, Inc
9/12	Mellitz, Richard	Samtec, Inc.	Samtec, Inc.
9/12	mi, guangcan	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
9/12	Moorwood, Charles	Keysight Technologies	Keysight Technologies
9/12	Muhigana, Ernest		Lumentum
9/12	Muller, Shimon	Enfabrica Corp.	Enfabrica
9/12	MURAKAMI, YUKI	FUJITSU LIMITED	Fujitsu Limited
9/12	Murty, Ramana	Broadcom Inc.	Broadcom Corporation

Day	Name	Employer	Affiliation
9/12	Muth, Karlheinz	Broadcom Corporation	Broadcom Corporation
9/12	Naderi Shahi, Sina		Marvell
9/12	Nakamoto, Edward	Spirent Communications	Spirent Communications
9/12	Nicholl, Gary	Cisco Systems, Inc.	Cisco Systems, Inc.
9/12	Nicholl, Shawn	Advanced Micro Devices (AMD)	Advanced Micro Devices (AMD)
9/12	Ninomiya, Takuya		Senko Advanced Components
9/12	Noujeim, Leesa	Google	Google
9/12	Nowell, Mark	Cisco Systems, Inc.	Cisco Systems, Inc.
9/12	Ofelt, David	Juniper Networks, Inc.	Juniper Networks, Inc.
9/12	OGAWA, SHOJI	Fujitsu Optical Components Limited	FUJITSU
9/12	Omori, Kumi	NEC Corporation	NEC Corporation
9/12	Opsasnick, Eugene	Broadcom Inc.	Broadcom Inc.
9/12	Palkert, Thomas	Macom,&nbsp;Samtec	Samtec-Macom
9/12	PARK, CHUL SOO	Juniper Networks Inc.	Juniper Networks, Inc.
9/12	Parkholm, Ulf	Telefon AB LM Ericsson	Telefon AB LM Ericsson
9/12	Parthasarathy, Vasu	Broadcom Corporation	Broadcom Corporation
9/12	Patra, lenin	Marvell Semiconductor, Inc.	Marvell Semiconductor, Inc.
9/12	peng, semmy		Huawei Technologies Co., Ltd
9/12	Peters, Kevin		Inneos
9/12	Rabinovich,	Keysight Technologies	Keysight Technologies

Day	Name	Employer	Affiliation
	Rick		
9/12	Ran, Adee	Cisco Systems, Inc.	Cisco Systems, Inc.
9/12	Razavi, Alireza	Marvell	Marvell
9/12	Rechtman, Zvi	NVIDIA	NVIDIA
9/12	Ren, Hao	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
9/12	Riani, Jamal		Marvell Semiconductor, Inc.
9/12	Rodes, Roberto	II-VI	II-VI
9/12	Sakai, Toshiaki	Socionext Inc.	socionext
9/12	Sambasivan, Sam	AT&T	AT&T
9/12	Savi, Olindo	Hubbell Incorporated	Hubbell Incorporated
9/12	SAWANO, Hiroshi	OITDA (Optoelectronics Industry and Technology Development Association)	OITDA
9/12	Sedarat, Hossein	Ethernovia	Ethernovia
9/12	Sekel, Steve		Wilder Technologies
9/12	Shah, Anup	Siemens Corporation	Siemens EDA
9/12	Shakiba, Mohammad	Huawei Technologies Canada	Huawei Technologies Canada; Huawei Technologies Co., Ltd
9/12	Shanbhag, Megha	Tyco	TE Connectivity
9/12	Shoval, Ayal	Synopsys, Inc.	Synopsys, Inc.
9/12	Shrikhande, Kapil	Marvell Semiconductor, Inc.	Marvell Semiconductor, Inc.
9/12	Shukla, Priyank	Synopsys, Inc.	Synopsys, Inc.
9/12	Sikkink, Mark	Hewlett Packard Enterprise	Hewlett Packard Enterprise
9/12	Simms,	NVIDIA Corporation	NVIDIA Corporation

Day	Name	Employer	Affiliation
	William		
9/12	Slavick, Jeff	Broadcom Inc	Broadcom Inc
9/12	Sluyski, Mike		Cisco Systems, Inc.
9/12	Sommers, Scott	Molex LLC	Molex Incorporated
9/12	Son, Yung Sung	Optomind Inc	Optomind Inc
9/12	Sorbara, Massimo	GLOBALFOUNDRIES	GLOBALFOUNDRIES
9/12	Sprague, Edward	Infinera Corporation	Infinera Corporation
9/12	Stassar, Peter	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
9/12	Sun, Yi		OFS
9/12	TAKAHARA, TOMOO	FUJITSU LABORATORIES LIMITED	FUJITSU LIMITED
9/12	TAN, SISI	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
9/12	Theodoras, James	HG Genuine	HG Genuine
9/12	Tooyserkani, Pirooz	Cisco Systems, Inc.	Cisco Systems, Inc.
9/12	Tracy, Nathan	TE Connectivity	TE Connectivity
9/12	Tran, Viet	Keysight Technologies	Keysight Technologies
9/12	Ulrichs, Ed	Intel	Intel
9/12	Wang, Haojie	China Mobile Communications Corporation (CMCC)	China Mobile Communications Corporation (CMCC)
9/12	Wang, Ruoxu	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
9/12	Watanabe, Yuji	AGC Inc.	AGC
9/12	Weaver, James	Arista Networks	Arista Networks

Day	Name	Employer	Affiliation
9/12	Welch, Brian	Cisco Systems, Inc.	Luxtera
9/12	Williams, Tom	Cisco Systems, Inc.	Cisco Systems, Inc.
9/12	Wingrove, Michael	Ciena Corporation	Ciena Corporation
9/12	Wu, Mau-Lin	MediaTek Inc.	MediaTek Inc.
9/12	Wu, Peter	Marvell Semiconductor, Inc.	Marvell Semiconductor, Inc.
9/12	Xu, Yu	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
9/12	Yin, Shuang		Google
9/13	Barcante Teixeira, Thiago		Agencia Nacional de Telecomunicacoes - Brasil
9/13	Beauregard, Francois	Belden Canada ULC	Belden
9/13	Ben-Artzi, Liav	Marvell Semiconductor, Inc.	Marvell Semiconductor, Inc.
9/13	Brooks, Paul	Viavi solutions GmbH	Viavi Solutions
9/13	Brown, Matthew	Alphawave	Alphawave
9/13	Bruckman, Leon	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
9/13	Cai, Yuefeng	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
9/13	Calvin, John	Keysight Technologies	Keysight Technologies
9/13	Carlson, Steven	High-Speed Design Inc.	HSD, Robert Bosch GmbH, Ethernovia
9/13	Castro, Jose	Panduit	Panduit Corp.
9/13	Chang, Yongmao	Inphi Corporation	Source Photonics
9/13	Chen, Chan	Self Employed	Independent/AOI
9/13	Cox, Ian		Broadcom Corporation

Day	Name	Employer	Affiliation
9/13	D'Ambrosia, John	Futurewei Technologies, U.S. Subsidiary of Huawei	Futurewei Technologies, U.S. Subsidiary of Huawei
9/13	Dawe, Piers J G	NVIDIA	Nvidia
9/13	Deandrea, John	Finisar Corporation	Finisar Corporation
9/13	de Koos, Andras	Microchip Technology Inc	Microchip Technology, Inc.
9/13	Del Vecchio, Peter		Broadcom Corporation
9/13	Diminico, Christopher	M C Communications, LLC	Panduit Corp.
9/13	Djahanshahi, Hormoz	Microchip Technology, Inc.	Microchip Technology, Inc.
9/13	Dudek, Michael	Marvell	Marvell
9/13	Estes, David	Spirent Communications	Spirent Communications
9/13	FUKUSHIMA, TAKAHITO	Dexerials Corporation	Dexerials Corporation
9/13	Gao, Xiangrong	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
9/13	Geng, Limin	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
9/13	Ghiasi, Ali	Ghiasi Quantum LLC	Ghiasi Quantum LLC; Marvell Semiconductor, Inc.
9/13	Gore, Brandon	Samtec, Inc.	Samtec, Inc.
9/13	Gorshe, Steven Scott	Microchip Technology, Inc.	Microchip Technology, Inc.
9/13	Gui, Tao		Huawei Technologies Co., Ltd
9/13	Gustlin, Mark	Cisco Systems, Inc.	Cisco Systems, Inc.
9/13	Harshbarger, Douglas		Corning Incorporated



Day	Name	Employer	Affiliation
9/13	He, Xiang	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
9/13	Healey, Adam	Broadcom Inc.	Broadcom Inc.
9/13	Hidaka, Yasuo	Credo Semiconductor	Credo Semiconductor
9/13	Huang, Kechao	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
9/13	Huber, Thomas	Nokia	Nokia
9/13	Ingham, Jonathan	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
9/13	Isono, Hideki	Fujitsu Optical Components Limited	Fujitsu Optical Components Limited
9/13	Issenhuth, Tom	Issenhuth Consulting, LLC	Huawei Technologies Co., Ltd
9/13	Jackson, Kenneth	Sumitomo Electric Industries, LTD	Sumitomo Electric Industries, LTD
9/13	Jiang, Chendi	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
9/13	Jiang, Chenhui	Sicoya	Sicoya
9/13	Johnson, John	Broadcom Corporation	Broadcom Corporation
9/13	Jonsson, Ragnar	Marvell Semiconductor, Inc.	Marvell
9/13	Kao, Chienping	Intel	Cornelis Networks
9/13	Kareti, Upen	Cisco Systems, Inc.	Cisco Systems, Inc.
9/13	Kim, Kihong/Joshua	Hirose Electric (USA), Inc.	Hirose Electric (USA), Inc.
9/13	Kimber, Eric	Semtech Ltd	Semtech Ltd
9/13	Klingensmith, William	U.S. Federal Government	DoD
9/13	Koch, Lavi		Lavi Koch Nvidia
9/13	Kocsis, Sam	Amphenol Corporation	Amphenol Corporation
9/13	Kondo, Taiji	MegaChips Corporation	Dexerials Corporation

Day	Name	Employer	Affiliation
9/13	Kota, Kishore	Marvell Semiconductor, Inc.	Marvell Semiconductor, Inc.
9/13	Kuschnerov, Maxim	Huawei Technologies Duesseldorf GmbH	Huawei Technologies Duesseldorf GmbH
9/13	Lambert, Angela	Corning Incorporated	Corning Incorporated
9/13	Lawson, Matthew	Cisco Systems, Inc.	Cisco Systems, Inc.
9/13	Le Cheminant, Greg	Keysight Technologies	Keysight Technologies
9/13	Lee, Sylvanus	Leviton Manufacturing Co.	Leviton Manufacturing Co.
9/13	Li, Mike-Peng	Intel	Intel
9/13	Li, Pei-Rong	MediaTek Inc.	MediaTek Inc.
9/13	Lieder, Eyal	Marvell Semiconductor, Inc.	Marvell Semiconductor, Inc.
9/13	Little, Terrance	Foxconn Electronics Inc.	Foxconn Electronics Inc.
9/13	Liu, Cathy	Broadcom Corporation	Broadcom Corporation
9/13	Liu, Karen	Nubis Communications	Nubis Communications
9/13	Lu, Yuchun	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
9/13	Luo, Yuanqiu	Futurewei Technologies	Futurewei Technologies
9/13	Lusted, Kent	Intel	Intel
9/13	Maki, Jeffery	Juniper Networks, Inc.	Juniper Networks, Inc.
9/13	Malicoat, David	Malicoat Networking Solutions	Malicoat Networking Solutions; SENKO Advanced Components
9/13	Maniloff, Eric	Ciena Corporation	Ciena Corporation
9/13	Maruyama, Takuto	Mitsubishi Electric US, Inc	Mitsubishi Electric US, Inc
9/13	Mellitz, Richard	Samtec, Inc.	Samtec, Inc.
9/13	mi, guangcan	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd

Day	Name	Employer	Affiliation
9/13	Moorwood, Charles	Keysight Technologies	Keysight Technologies
9/13	Muhigana, Ernest		Lumentum
9/13	Muller, Shimon	Enfabrica Corp.	Enfabrica
9/13	MURAKAMI, YUKI	FUJITSU LIMITED	Fujitsu Limited
9/13	Muth, Karlheinz	Broadcom Corporation	Broadcom Corporation
9/13	Naderi Shahi, Sina		Marvell
9/13	Nakamoto, Edward	Spirent Communications	Spirent Communications
9/13	Nering, Raymond	Cisco Systems, Inc.	Cisco Systems, Inc.
9/13	Nicholl, Gary	Cisco Systems, Inc.	Cisco Systems, Inc.
9/13	Nicholl, Shawn	Advanced Micro Devices (AMD)	Advanced Micro Devices (AMD)
9/13	Ninomiya, Takuya		Senko Advanced Components
9/13	Noujeim, Leesa	Google	Google
9/13	Nowell, Mark	Cisco Systems, Inc.	Cisco Systems, Inc.
9/13	Ofelt, David	Juniper Networks, Inc.	Juniper Networks, Inc.
9/13	OGAWA, SHOJI	Fujitsu Optical Components Limited	FUJITSU
9/13	Omori, Kumi	NEC Corporation	NEC Corporation
9/13	Opsasnick, Eugene	Broadcom Inc.	Broadcom Inc.
9/13	Palkert, Thomas	Macom,&nbsp;Samtec	Samtec-Macom

Day	Name	Employer	Affiliation
9/13	PARK, CHUL SOO	Juniper Networks Inc.	Juniper Networks, Inc.
9/13	Parkholm, Ulf	Telefon AB LM Ericsson	Telefon AB LM Ericsson
9/13	Parsons, Earl	CommScope, Inc.	CommScope, Inc.
9/13	Parthasarathy, Vasu	Broadcom Corporation	Broadcom Corporation
9/13	Patra, lenin	Marvell Semiconductor, Inc.	Marvell Semiconductor, Inc.
9/13	peng, semmy		Huawei Technologies Co., Ltd
9/13	Peters, Kevin		Inneos
9/13	Quan, Yu	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
9/13	Rabinovich, Rick	Keysight Technologies	Keysight Technologies
9/13	Ran, Adee	Cisco Systems, Inc.	Cisco Systems, Inc.
9/13	Rechtman, Zvi	NVIDIA	NVIDIA
9/13	Ren, Hao	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
9/13	Riani, Jamal		Marvell Semiconductor, Inc.
9/13	Rodes, Roberto	II-VI	II-VI
9/13	Sakai, Toshiaki	Socionext Inc.	socionext
9/13	Sambasivan, Sam	AT&T	AT&T
9/13	Savi, Olindo	Hubbell Incorporated	Hubbell Incorporated
9/13	SAWANO, Hiroshi	OITDA (Optoelectronics Industry and Technology Development Association)	OITDA
9/13	Sedarat, Hossein	Ethernovia	Ethernovia
9/13	Sekel, Steve		Wilder Technologies
9/13	Shah, Anup	Siemens Corporation	Siemens EDA

Day	Name	Employer	Affiliation
9/13	Shanbhag, Megha	Tyco	TE Connectivity
9/13	She, Qingya	Fujitsu Network Communications	Fujitsu Network Communications
9/13	Sheffi, Nir	Alphawave	Alphawave
9/13	Shoval, Ayal	Synopsys, Inc.	Synopsys, Inc.
9/13	Shrikhande, Kapil	Marvell Semiconductor, Inc.	Marvell Semiconductor, Inc.
9/13	Shukla, Priyank	Synopsys, Inc.	Synopsys, Inc.
9/13	Sikkink, Mark	Hewlett Packard Enterprise	Hewlett Packard Enterprise
9/13	Simms, William	NVIDIA Corporation	NVIDIA Corporation
9/13	Slavick, Jeff	Broadcom Inc	Broadcom Inc
9/13	Sommers, Scott	Molex LLC	Molex Incorporated
9/13	Son, Yung Sung	Optomind Inc	Optomind Inc
9/13	Sorbara, Massimo	GLOBALFOUNDRIES	GLOBALFOUNDRIES
9/13	Sprague, Edward	Infinera Corporation	Infinera Corporation
9/13	Stassar, Peter	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
9/13	Sun, Yi		OFS
9/13	TAKAHARA, TOMOO	FUJITSU LABORATORIES LIMITED	FUJITSU LIMITED
9/13	TAN, SISI	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
9/13	Terada, Masaru	FURUKAWA ELECTRIC	FURUKAWA ELECTRIC
9/13	Theodoras, James	HG Genuine	HG Genuine

Day	Name	Employer	Affiliation
9/13	Tooyserkani, Pirooz	Cisco Systems, Inc.	Cisco Systems, Inc.
9/13	Tracy, Nathan	TE Connectivity	TE Connectivity
9/13	Tran, Viet	Keysight Technologies	Keysight Technologies
9/13	Ulrichs, Ed	Intel	Intel
9/13	Wang, Ruoxu	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
9/13	Watanabe, Yuji	AGC Inc.	AGC
9/13	Weaver, James	Arista Networks	Arista Networks
9/13	Welch, Brian	Cisco Systems, Inc.	Luxtera
9/13	Williams, Tom	Cisco Systems, Inc.	Cisco Systems, Inc.
9/13	Wingrove, Michael	Ciena Corporation	Ciena Corporation
9/13	Wu, Mau-Lin	MediaTek Inc.	MediaTek Inc.
9/13	Wu, Peter	Marvell Semiconductor, Inc.	Marvell Semiconductor, Inc.
9/13	Xu, Yu	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
9/13	Yin, Shuang		Google
9/13	Yu, Rang-Chen	SiFotonics	SiFotonics Technologies
9/14	Barcante Teixeira, Thiago		Agencia Nacional de Telecomunicacoes - Brasil
9/14	BARSKY, greg		Broadcom Corporation
9/14	Ben-Artzi, Liav	Marvell Semiconductor, Inc.	Marvell Semiconductor, Inc.
9/14	Bernier, Eric	Huawei Technologies Canada Co., Ltd.	Huawei Technologies Canada Co., Ltd.
9/14	Brooks, Paul	Viavi solutions GmbH	Viavi Solutions
9/14	Brown, Matthew	Alphawave	Alphawave
9/14	Bruckman,	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd

Day	Name	Employer	Affiliation
	Leon		
9/14	Cai, Yuefeng	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
9/14	Calvin, John	Keysight Technologies	Keysight Technologies
9/14	Chang, Yongmao	Inphi Corporation	Source Photonics
9/14	Chen, Chan	Self Employed	Independent/AOI
9/14	Choudhury, Golam	OFS	OFS
9/14	Cox, Ian		Broadcom Corporation
9/14	Dawe, Piers J G	NVIDIA	Nvidia
9/14	Deandrea, John	Finisar Corporation	Finisar Corporation
9/14	de Koos, Andras	Microchip Technology Inc	Microchip Technology, Inc.
9/14	Del Vecchio, Peter		Broadcom Corporation
9/14	Diminico, Christopher	M C Communications, LLC	Panduit Corp.
9/14	Djahanshahi, Hormoz	Microchip Technology, Inc.	Microchip Technology, Inc.
9/14	Dudek, Michael	Marvell	Marvell
9/14	Effenberger, Frank	Futurewei Technologies	Futurewei Technologies
9/14	Estes, David	Spirent Communications	Spirent Communications
9/14	Ferretti, Vincent	Corning Incorporated	Corning Incorporated
9/14	FUKUSHIMA, TAKAHITO	Dexerials Corporation	Dexerials Corporation
9/14	Gao,	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd

Day	Name	Employer	Affiliation
	Xiangrong		
9/14	Geng, Limin	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
9/14	Ghiasi, Ali	Ghiasi Quantum LLC	Ghiasi Quantum LLC; Marvell Semiconductor, Inc.
9/14	Gore, Brandon	Samtec, Inc.	Samtec, Inc.
9/14	Gui, Tao		Huawei Technologies Co., Ltd
9/14	Gustlin, Mark	Cisco Systems, Inc.	Cisco Systems, Inc.
9/14	He, Xiang	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
9/14	Healey, Adam	Broadcom Inc.	Broadcom Inc.
9/14	Hidaka, Yasuo	Credo Semiconductor	Credo Semiconductor
9/14	Huang, Kechao	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
9/14	Huber, Thomas	Nokia	Nokia
9/14	Ingham, Jonathan	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
9/14	Isono, Hideki	Fujitsu Optical Components Limited	Fujitsu Optical Components Limited
9/14	Issenhuth, Tom	Issenhuth Consulting, LLC	Huawei Technologies Co., Ltd
9/14	Jackson, Kenneth	Sumitomo Electric Industries, LTD	Sumitomo Electric Industries, LTD
9/14	Jiang, Chendi	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
9/14	Jiang, Chenhui	Sicoya	Sicoya
9/14	Johnson, John	Broadcom Corporation	Broadcom Corporation
9/14	Kao, Chienping	Intel	Cornelis Networks
9/14	Kareti, Upen	Cisco Systems, Inc.	Cisco Systems, Inc.
9/14	Kim, Kihong/Joshua	Hirose Electric (USA), Inc.	Hirose Electric (USA), Inc.
9/14	Kimber, Eric	Semtech Ltd	Semtech Ltd



Day	Name	Employer	Affiliation
9/14	Klingensmith, William	U.S. Federal Government	DoD
9/14	Kocsis, Sam	Amphenol Corporation	Amphenol Corporation
9/14	Kondo, Taiji	MegaChips Corporation	Dexerials Corporation
9/14	Kota, Kishore	Marvell Semiconductor, Inc.	Marvell Semiconductor, Inc.
9/14	Kuschnirov, Maxim	Huawei Technologies Duesseldorf GmbH	Huawei Technologies Duesseldorf GmbH
9/14	Lambert, Angela	Corning Incorporated	Corning Incorporated
9/14	Lawson, Matthew	Cisco Systems, Inc.	Cisco Systems, Inc.
9/14	Le Cheminant, Greg	Keysight Technologies	Keysight Technologies
9/14	Lee, Sylvanus	Leviton Manufacturing Co.	Leviton Manufacturing Co.
9/14	Li, Mike-Peng	Intel	Intel
9/14	Li, Pei-Rong	MediaTek Inc.	MediaTek Inc.
9/14	Lieder, Eyal	Marvell Semiconductor, Inc.	Marvell Semiconductor, Inc.
9/14	Little, Terrance	Foxconn Electronics Inc.	Foxconn Electronics Inc.
9/14	Liu, Cathy	Broadcom Corporation	Broadcom Corporation
9/14	Liu, Karen	Nubis Communications	Nubis Communications
9/14	Lu, Yuchun	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
9/14	Luo, Yuanqiu	Futurewei Technologies	Futurewei Technologies
9/14	Lusted, Kent	Intel	Intel
9/14	Lyon, Chris		Amphenol Corporation
9/14	Maki, Jeffery	Juniper Networks, Inc.	Juniper Networks, Inc.
9/14	Maniloff, Eric	Ciena Corporation	Ciena Corporation
9/14	Maruyama,	Mitsubishi Electric US, Inc	Mitsubishi Electric US, Inc

Day	Name	Employer	Affiliation
	Takuto		
9/14	Mellitz, Richard	Samtec, Inc.	Samtec, Inc.
9/14	mi, guangcan	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
9/14	Moorwood, Charles	Keysight Technologies	Keysight Technologies
9/14	Muhigana, Ernest		Lumentum
9/14	Muller, Shimon	Enfabrica Corp.	Enfabrica
9/14	MURAKAMI, YUKI	FUJITSU LIMITED	Fujitsu Limited
9/14	Murty, Ramana	Broadcom Inc.	Broadcom Corporation
9/14	Muth, Karlheinz	Broadcom Corporation	Broadcom Corporation
9/14	Naderi Shahi, Sina		Marvell
9/14	Nakamoto, Edward	Spirent Communications	Spirent Communications
9/14	Nering, Raymond	Cisco Systems, Inc.	Cisco Systems, Inc.
9/14	Nicholl, Gary	Cisco Systems, Inc.	Cisco Systems, Inc.
9/14	Nicholl, Shawn	Advanced Micro Devices (AMD)	Advanced Micro Devices (AMD)
9/14	Noujeim, Leesa	Google	Google
9/14	Nowell, Mark	Cisco Systems, Inc.	Cisco Systems, Inc.
9/14	Ofelt, David	Juniper Networks, Inc.	Juniper Networks, Inc.
9/14	OGAWA, SHOJI	Fujitsu Optical Components Limited	FUJITSU
9/14	Opsasnick,	Broadcom Inc.	Broadcom Inc.

Day	Name	Employer	Affiliation
	Eugene		
9/14	Palkert, Thomas	Macom,&nbsp;Samtec	Samtec-Macom
9/14	PARK, CHUL SOO	Juniper Networks Inc.	Juniper Networks, Inc.
9/14	Parkholm, Ulf	Telefon AB LM Ericsson	Telefon AB LM Ericsson
9/14	Parsons, Earl	CommScope, Inc.	CommScope, Inc.
9/14	Parthasarathy, Vasu	Broadcom Corporation	Broadcom Corporation
9/14	peng, semmy		Huawei Technologies Co., Ltd
9/14	Quan, Yu	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
9/14	Rabinovich, Rick	Keysight Technologies	Keysight Technologies
9/14	Ran, Adee	Cisco Systems, Inc.	Cisco Systems, Inc.
9/14	Rechtman, Zvi	NVIDIA	NVIDIA
9/14	Ren, Hao	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
9/14	Rodes, Roberto	II-VI	II-VI
9/14	Sakai, Toshiaki	Socionext Inc.	socionext
9/14	Savi, Olindo	Hubbell Incorporated	Hubbell Incorporated
9/14	SAWANO, Hiroshi	OITDA (Optoelectronics Industry and Technology Development Association)	OITDA
9/14	Sekel, Steve		Wilder Technologies
9/14	Shah, Anup	Siemens Corporation	Siemens EDA
9/14	Shakiba, Mohammad	Huawei Technologies Canada	Huawei Technologies Canada; Huawei Technologies Co., Ltd
9/14	Shanbhag, Megha	Tyco	TE Connectivity

Day	Name	Employer	Affiliation
9/14	She, Qingya	Fujitsu Network Communications	Fujitsu Network Communications
9/14	Sheffi, Nir	Alphawave	Alphawave
9/14	Shoval, Ayal	Synopsys, Inc.	Synopsys, Inc.
9/14	Shrikhande, Kapil	Marvell Semiconductor, Inc.	Marvell Semiconductor, Inc.
9/14	Shukla, Priyank	Synopsys, Inc.	Synopsys, Inc.
9/14	Sikkink, Mark	Hewlett Packard Enterprise	Hewlett Packard Enterprise
9/14	Simms, William	NVIDIA Corporation	NVIDIA Corporation
9/14	Slavick, Jeff	Broadcom Inc	Broadcom Inc
9/14	Sommers, Scott	Molex LLC	Molex Incorporated
9/14	Son, Yung Sung	Optomind Inc	Optomind Inc
9/14	Sorbara, Massimo	GLOBALFOUNDRIES	GLOBALFOUNDRIES
9/14	Sprague, Edward	Infinera Corporation	Infinera Corporation
9/14	Stassar, Peter	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
9/14	Sun, Junqing	Credo Semiconductor	Credo Semiconductor
9/14	Sun, Yi		OFS
9/14	TAKAHARA, TOMOO	FUJITSU LABORATORIES LIMITED	FUJITSU LIMITED
9/14	TAN, SISI	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
9/14	Terada, Masaru	FURUKAWA ELECTRIC	FURUKAWA ELECTRIC
9/14	Theodoras, James	HG Genuine	HG Genuine
9/14	Tooyserkani,	Cisco Systems, Inc.	Cisco Systems, Inc.

Day	Name	Employer	Affiliation
	Pirooz		
9/14	Tracy, Nathan	TE Connectivity	TE Connectivity
9/14	Tran, Viet	Keysight Technologies	Keysight Technologies
9/14	Ulrichs, Ed	Intel	Intel
9/14	Vidal, Or	Alphawave Semi	Alphawave Semi
9/14	Wang, Haojie	China Mobile Communications Corporation (CMCC)	China Mobile Communications Corporation (CMCC)
9/14	Wang, Ruoxu	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
9/14	Weaver, James	Arista Networks	Arista Networks
9/14	Welch, Brian	Cisco Systems, Inc.	Luxtera
9/14	Wingrove, Michael	Ciena Corporation	Ciena Corporation
9/14	Xu, Yu	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd
9/14	Yin, Shuang		Google
9/14	Zhuang, Yan	Huawei Technologies Co., Ltd	Huawei Technologies Co., Ltd