

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

May 2022 Electronic Session

Approved Meeting Minutes, prepared by John D’Ambrosia and Kent Lusted

Session called to order at 10:00 am ET (all times ET), 17 May 2022

Meeting called to order by John D’Ambrosia, IEEE P802.3df Task Force Chair

Chair noted that attendance would be taken by IMAT.

| Presentation #1 | Agenda and General Information |
|-----------------|---|
| Presenters | John D’Ambrosia |
| URL | https://www.ieee802.org/3/df/public/22_05/agenda_3df_a_2205.pdf |

Chair reviewed the agenda (Slide #2) and noted presentation order on Slide #3. Chair noted that the agendas for all of the meetings during the session were full. Time had been scheduled for discussion / straw polls / motions during the 24 May and 02 June sessions.

Chair asked if there were any objections to the agenda (Slide #3). The chair asked if there were there any other objections, and there were none. The chair asked if there were any objections to the approval of the agenda, and there were none. The agenda was considered approved by unanimous consent.

Minutes – Mar 2022 session

https://www.ieee802.org/3/df/public/22_03/minutes_3df_2203_unapproved.pdf

Chair asked if there were any other corrections. There were none. Chair asked if there were any objections to approving the modified minutes. There were none, and the minutes were considered approved by unanimous consent.

Chair reviewed the Task Force Project Information / Organization. See Slides #4.

Chair reviewed meeting decorum. See Slide #5.

Chair ruled Task Force voting, voting rights, and attendance. See Slides #8-9.

Slide #10 - Chair noted that the information regarding the IEEE SA Policies had been sent out, 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

Chair asked if anyone needed to review the policies at that time – there were no requests to do so.

Chair presented the third slide (See Slide #31) 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 #36) 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 presented the second slide (See Slide #40) 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 noted that as of 16 May, there were no liaisons for the Task Force to consider. See Slide #11.

Chair reviewed future meetings. See Slide #12.

Chair presented summary of ad hoc meetings. See Slides #13-14.

D'Ambrosia asked Nowell to chair the meeting while he gave the next presentation. Mark Nowell assumed chairing meeting at 10:11 am.

| | |
|------------------------|---|
| Presentation #2 | State of IEEE P802.3df |
| Presenters | John D'Ambrosia |
| URL | https://www.ieee802.org/3/df/public/22_05/22_0517/dambrosia_3df_01_220517.pdf |

General questions of clarification.

D'Ambrosia resumed chairing the meeting at 10:26 am.

Prior to the start of presentation, Mark Gustlin indicated that editorial changes had been made and supporters had been added. He will provide the chair with the updated presentation (noted below) after the meeting.

| | |
|------------------------|---|
| Presentation #3 | Logic Architecture Baseline |
| Presenter | Mark Gustlin |
| URL | https://www.ieee802.org/3/df/public/22_05/22_0517/gustlin_3df_01a_220517.pdf |

General questions of clarification.

Prior to the start of presentation, Kapil Shrikhande indicated that editorial changes had been made and supporters had been added. Chair noted that the version had been uploaded already (noted below).

| | |
|------------------------|---|
| Presentation #4 | 800GbE PCS/FEC/PMA Baseline Proposal for PHYs using 8 x 100G PMD lanes - Update |
| Presenters | Kapil Shrikhande |
| URL | https://www.ieee802.org/3/df/public/22_05/22_0517/shrikhande_3df_01b_220517.pdf |

Nathan Tracy and Megha Shanbag stated that they wanted to be listed as supporters of the presentation. Author to provide updated version '01b'.

General questions and discussion.

| | |
|------------------------|---|
| Presentation #5 | Analysis of FEC1 Proposals from Reuse Perspective |
| Presenters | Xiang He |
| URL | https://www.ieee802.org/3/df/public/22_05/22_0517/he_3df_01_220517.pdf |

General questions and discussion.

Break at 11:42 a.m. Resumed 11:45 a.m.

| | |
|------------------------|---|
| Presentation #6 | Concatenated Code Update in PCS/FEC/PMA Architecture |
| Presenters | Xinyuan Wang |
| URL | https://www.ieee802.org/3/df/public/22_05/22_0517/wang_3df_01_220517.pdf |

General questions and discussion.

| | |
|------------------------|---|
| Presentation #7 | Soft Inner Hamming Net Coding Gain vs Interleaver Latency |
| Presenters | Will Bliss |
| URL | https://www.ieee802.org/3/df/public/22_05/22_0517/bliss_3df_01a_220517.pdf |

General questions and discussion.

Bliss noted he had added a supporters page, and will send the chair an update (noted above).

Chair opened the floor for additional Q&A related to any presentation seen at the 17 May 2022 meeting.

Chair reviewed the presentation list for the 18 May meeting. Presentations were posted to the Task Force website (see: https://www.ieee802.org/3/df/public/22_05/index.html)

Session recessed for the day at 12:55 pm

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

May 2022 Electronic Session

Unapproved Meeting Minutes, prepared by John D'Ambrosia and Kent Lusted

Session reconvened at 10:00 am ET (all times ET), 18 May 2022

Meeting called to order by John D'Ambrosia, IEEE P802.3df Task Force Chair

Chair noted that attendance would be taken by IMAT.

Slide #10 - Chair noted that the information regarding the IEEE SA Policies had been sent out, 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

Chair asked if anyone needed to review the policies at that time – there were no requests to do so.

Chair presented the third slide (See Slide #31) 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 #36) 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 presented the second slide (See Slide #40) 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 noted that the agenda had been updated to https://www.ieee802.org/3/df/public/22_05/agenda_3df_b_2205.pdf to reflect that remote access for the July 2022 Plenary session would be provided on best effort basis.

Chair noted that he received an updated presentation from Adeo Ran with editorial changes and added supporters that would be posted to the website shortly.

| | |
|------------------------|---|
| Presentation #8 | FEC Striping across Optical Lanes |
| Presenter | Jeff Rahn |
| URL | https://www.ieee802.org/3/df/public/22_05/22_0518/rahn_3df_01_220518.pdf |

General questions of clarification.

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

| | |
|------------------------|---|
| Presentation #9 | PCS and FEC sublayer considerations |
| Presenter | Tom Huber |
| URL | https://www.ieee802.org/3/df/public/22_05/22_0518/huber_3df_01_220518.pdf |

General questions of clarification.

| | |
|-------------------------|---|
| Presentation #10 | Selecting right FEC Architecture for 200G per Lane PMD |
| Presenters | Lenin Patra |
| URL | https://www.ieee802.org/3/df/public/22_05/22_0518/patra_3df_01_220518.pdf |

General questions and discussion.

| | |
|-------------------------|---|
| Presentation #11 | Architecture considerations for 800GbE and 1.6TbE |
| Presenters | Yuchun Lu |
| URL | https://www.ieee802.org/3/df/public/22_05/22_0518/lu_3df_01_220518.pdf |

General questions and discussion. It was noted that slide 2 summarized the adopted objectives listing one-lane, two-lane and four-lane 200Gbps/lane backplane objectives, which have not been adopted by the Task Force or Work Group. Author confirmed that these backplane objectives in yellow were not adopted but it was his personal opinion to see them considered and adopted in the future.

Break at 12:03 p.m. Resumed at 12:05 p.m.

Prior to the start of the presentation, Ali Ghiasi indicated that editorial changes had been made and supporters had been added. He will provide the chair with the updated presentation (noted below) after the meeting.

| | |
|-------------------------|---|
| Presentation #12 | FEC Architecture with Evolution of AUI and PMDs |
| Presenters | Ali Ghiasi |
| URL | https://www.ieee802.org/3/df/public/22_05/22_0518/ghiasi_3df_01a_220518.pdf |

General questions and discussion.

Prior to the start of the presentation, the Chair reminded participants of the updated presentation from Adee Ran. Chair will post the updated presentation (noted below) after the meeting.

| | |
|-------------------------|---|
| Presentation #13 | RS-FEC with error bursts at 200G/lane compared to earlier rates |
| Presenters | Adee Ran |
| URL | https://www.ieee802.org/3/df/public/22_05/22_0518/ran_3df_01a_220518.pdf |

General questions and discussion.

Chair reviewed future meetings and noted that the meeting for 24 May would begin at 9am eastern time.

Session recessed for the day at 01:00 p.m.

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

May 2022 Electronic Session

Unapproved Meeting Minutes, prepared by John D’Ambrosia and Kent Lusted

Session called to order at 09:03 am ET (all times ET), 24 May 2022

Meeting called to order by John D’Ambrosia, IEEE P802.3df Task Force Chair

Chair noted that attendance would be taken by IMAT.

Chair began with the agenda presentation https://www.ieee802.org/3/df/public/22_05/agenda_3df_b_2205.pdf

Slide #10 - Chair noted that the information regarding the IEEE SA Policies had been sent out, 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

Chair asked if anyone needed to review the policies at that time – there were no requests to do so.

Chair presented the third slide (See Slide #31) 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 #36) 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 presented the second slide (See Slide #40) 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.”

| | |
|-------------------------|---|
| Presentation #14 | Architecture Preface |
| Presenters | Mark Gustlin |
| URL | https://www.ieee802.org/3/df/public/22_05/22_0524/gustlin_3df_01_220524.pdf |

General questions of clarification.

Straw Poll #1

I would support adopting the architecture described in [gustlin_3df_01a_220517](#) as the basis for the logic architecture for IEEE P802.3df

Y: 87 , N: 1 , Need More Information: 6

Motion #1

Move to adopt the architecture described in gustlin_3df_01a_220517 as the basis for the logic architecture for IEEE P802.3df

M: Mark Nowell

S: Paul Brooks

Technical (>=75%)

Motioned passed by unanimous consent.

Prior to the start of the presentation, Brian Welch indicated that supporters had been added. He will provide the chair with the updated presentation (noted below) after the meeting.

| | |
|-------------------------|---|
| Presentation #15 | 400GBASE-DR4-2 Baseline Proposal |
| Presenter | Brian Welch |
| URL | https://www.ieee802.org/3/df/public/22_05/22_0524/welch_3df_01a_220524.pdf |

During the presentation, Peter Stassar offered his support to the proposal.

General questions of clarification.

Prior to the start of the presentation, the Chair indicated that he had received an update to the following presentation with additional new content to help clarify the message of the presentation. The chair received the updated presentation (noted below) before the meeting that had not yet been posted. Chair asked if there was opposition to hearing the updated presentation. No one responded.

| | |
|-------------------------|---|
| Presentation #16 | Four-wave Mixing Penalty for WDM-based Ethernet PMDs in O-band |
| Presenters | Xiang Zhou |
| URL | https://www.ieee802.org/3/df/public/22_05/22_0524/lam_3df_01a_220524.pdf |

General questions and discussion.

Prior to the start of the presentation, the Chair indicated that he had received an update to the following presentation with editorial changes. The chair received the updated presentation (noted below) before the meeting that had not yet been posted. Chair asked if there was opposition to hearing the updated presentation. No one responded.

| | |
|-------------------------|---|
| Presentation #17 | Further Considerations on analyzing FWM effect on 200G/lane IMDD for LR |
| Presenters | Guangcan Mi |
| URL | https://www.ieee802.org/3/df/public/22_05/22_0524/mi_3df_01a_220524.pdf |

General questions and discussion.

Break at 10:51 a.m. Resumed at 10:56 a.m.

| | |
|-------------------------|---|
| Presentation #18 | Modeling MPI penalty and its implication for next generation PAMx systems |
| Presenters | Huijian Zhang |
| URL | https://www.ieee802.org/3/df/public/22_05/22_0524/zhang_3df_01_220524.pdf |

General questions and discussion.

Chair provided an update on liaisons. (see slide #11 of https://www.ieee802.org/3/df/public/22_05/agenda_3df_c_2205.pdf) The Task Force received a liaison from OIF. Chair reviewed the proposed response plan and asked if there was objection to the plan. No one responded.

Motion #2

Move to adopt [welch_3df_01a_220524.pdf](#) as the baseline proposal to satisfy the objective to “define a physical layer specification that supports 400 Gb/s operation over 4 pairs of SMF with lengths up to at least 2 km”.

M: Gary Nicholl

S: Ed Ulrichs

Technical (>=75%)

Motion passed by unanimous consent.

Chair reminded participants to attend the IEEE 802.3 May 2022 interim Working Group call on Thursday, 26 May. Discussed various aspects of the IEEE 802.3 voter rights and participation.

Session recessed for the day at 11:46 a.m.

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

May 2022 Electronic Session

Unapproved Meeting Minutes, prepared by John D'Ambrosia and Kent Lusted

Session called to order at 09:05 am ET (all times ET), 2 June 2022

Meeting called to order by John D'Ambrosia, IEEE P802.3df Task Force Chair

Chair noted that attendance would be taken by IMAT.

Slide #10 - Chair noted that the information regarding the IEEE SA Policies had been sent out, 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

Chair asked if anyone needed to review the policies at that time – there were no requests to do so.

Chair presented the third slide (See Slide #31) 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 #36) 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 presented the second slide (See Slide #40) 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 status of liaisons. See Slide #11.

Chair reviewed future meetings. See Slide #12 for the Task Force, and Slide #15 for the ad hocs..

| | |
|-------------------------|---|
| Presentation #19 | CI 73 AN Baseline Proposal for eight-lane 800GBASECR8 and 800GBASE-KR8 |
| Presenters | Kent Lusted |
| URL | https://www.ieee802.org/3/df/public/22_05/22_0602/lusted_3df_01a_220602.pdf |

General questions of clarification.

| | |
|-------------------------|---|
| Presentation #20 | Considerations for test fixture specifications |
| Presenter | Chris DiMinico |
| URL | https://www.ieee802.org/3/df/public/22_05/22_0602/diminico_3df_02a_220602.pdf |

- Author noted an error on slide 9 and would provide an updated version '02a' with correction.

General questions of clarification.

| | |
|-------------------------|---|
| Presentation #21 | 8 lane MDIs for 8x100G PMDs |
| Presenters | Chris DiMinico |
| URL | https://www.ieee802.org/3/df/public/22_05/22_0602/diminico_3df_01a_220602.pdf |

- Author to provide updated version '01a' that adds Kent Lusted as a contributor on slide 3.

General questions and discussion.

Prior to the start of this presentation, the chair noted that Tobey's affiliation, rather than her name had been listed in the presentation list in the agenda file. Chair noted he would update the agenda file to version "d" (see https://www.ieee802.org/3/df/public/22_05/agenda_3df_d_2205.pdf)

| | |
|-------------------------|---|
| Presentation #22 | COM Simulation and Analysis for 200Gbps/Lane CR |
| Presenters | Tobey P. R. Li |
| URL | https://www.ieee802.org/3/df/public/22_05/22_0602/li_3df_01_220602.pdf |

General questions and discussion.

Break at 10:36 a.m. Resumed at 10:40 a.m.

Chair reviewed the future meetings and reminded participants of the Task Force meeting on 9 June. (See the IEEE 802.3 call and meeting calendar: <https://www.ieee802.org/3/calendar.html>) . Mr. Nowell noted that had canceled the optics ad hoc meeting for 9 June.

| | |
|-------------------------|---|
| Presentation #23 | Optical PHY Nomenclature |
| Presenters | Kent Lusted |
| URL | https://www.ieee802.org/3/df/public/22_05/22_0602/lusted_3df_02_220602.pdf |

General questions and discussion.

Prior to the start of the presentation, Brian Welch indicated that he had an updated version with editorial changes. He will provide the chair with the updated presentation version '01b' (noted below) after the meeting.

| | |
|-------------------------|---|
| Presentation #26 | Baseline proposals for 800GBASE-DR4, 800GBASE-DR4-2, and 800GBASE-FR4 |
| Presenters | Brian Welch |
| URL | https://www.ieee802.org/3/df/public/22_05/22_0602/welch_3df_01b_220602.pdf |

General questions and discussion.

Motion #3

Move to:

- Adopt lusted_3df_01a_220602 slides 4-5 as the Clause 73 baseline for eightlane 800GBASE-CR8 and 800GBASE-KR8

M: Kent Lusted

S: Jeff Slavick

Technical (>= 75%)

Passed by unanimous consent 11:46 a.m.

Motion #4

Move to adopt diminico_3df_01a_220602.pdf slides 4 and 6-7 as the baseline for the 800GBASE-CR8 MDIs

M: Chris Diminico

S: Kent Lusted

Technical (>= 75%)

Passed by unanimous consent 11:48 a.m.

Motion #5

Move to:

- Adopt the nomenclature for the 500m and 2km SMF solutions listed on lusted_3df_02_220602, slide 3

M: Kent Lusted

S: Gary Nicholl

Technical (>= 75%)

Passed by unanimous consent 11:50 a.m.

| | |
|-------------------------|---|
| Presentation #27 | Update of 802.3df Baseline Status Summary |
| Presenters | Mark Nowell |
| URL | https://www.ieee802.org/3/df/public/22_05/22_0602/dambrosia_3df_01_220602.pdf |

Chair reviewed the path forward as shown in the State of the Project

https://www.ieee802.org/3/df/public/22_05/22_0517/dambrosia_3df_01_220517.pdf slides 7-11 and discussed a possible PAR split and PAR modification of the Task Force.

Chair reviewed the July 2022 Plenary details. He noted that remote attendee support would be “best effort”.

Chair reminded participants of the next meeting on 9 June. See <https://www.ieee802.org/3/calendar.html>

Chair noted that the agenda was complete.

Meeting adjourned at 12:09 p.m.

Attendees

| Name | Employer | Affiliation | 17-May | 18-May | 24-May | 2-Jun |
|-----------------------|-------------------------------|---|--------|--------|--------|-------|
| Akbaba, Enis | Analog Devices Inc. | Analog Devices Inc. | X | X | X | |
| Akinwale, Oluwafemi | | Intel Corporation | X | | | X |
| Ben-Artsi, Liav | Marvell Semiconductor, Inc. | Marvell Semiconductor, Inc. | X | X | X | |
| Bernier, Eric | | Huawei Technologies Canada; Huawei Technologies Co., Ltd | X | X | X | X |
| Bernstein, Gary | Leviton Manufacturing Co. | The Siemon Company | | | | X |
| Bliss, William | Broadcom Corporation | Broadcom Corporation | X | X | X | X |
| Bois, Karl | NVIDIA Corporation | NVIDIA Corporation | X | X | X | X |
| Bovington, Jock | | Cisco Systems, Inc. | X | | | X |
| Brooks, Paul | Viavi solutions GmbH | Viavi Solutions | X | X | X | |
| Brown, Blake | | University of New Hampshire InterOperability Laboratory (UNH-IOL) | | X | X | |
| Brown, Matthew | Huawei Technologies Canada | Huawei Technologies Canada | | | X | X |
| Bruckman, Leon | Huawei Technologies Co., Ltd | Huawei Technologies Co., Ltd | X | X | X | X |
| Brychta, Michal | Analog Devices Inc. | Analog Devices Inc. | | | X | |
| Calvin, John | Keysight Technologies | Keysight Technologies | X | X | X | X |
| Cassan, Dave | Alphawave | Alphawave | | | X | |
| Chang, Yongmao | Inphi Corporation | Source Photonics | | X | X | X |
| Chen, Chan | Applied Optoelectronics, Inc. | Applied Optoelectronics, Inc. | | X | | X |
| Choe, Denz | | BeCe Pte Ltd | X | X | | X |
| Choudhury, Golam | OFS | OFS | X | X | X | X |
| D'Ambrosia, John | Futurewei Technologies | Futurewei Technologies, U.S. Subsidiary of Huawei | X | X | x | X |
| Dawe, Piers J G | NVIDIA | Nvidia | X | X | X | X |
| Deandrea, John | Finisar Corporation | Finisar Corporation | X | X | | X |
| Didde, Stephen | Keysight Technologies | Keysight Technologies | X | X | X | X |
| Diminico, Christopher | M C Communications, LLC | Panduit Corp. | X | | X | X |
| Dube, Kathryn | UNH-IOL | UNH-IOL | X | X | X | X |
| Dudek, Michael | Marvell | Marvell | X | X | X | X |
| Dumais, Patrick | | Huawei Technologies Co., Ltd | | | | X |
| Ellison, Jason | Amphenol Corporation | The Siemon Company | X | | | |
| Estes, David | Spirent Communications | Spirent Communications | X | X | X | |
| Ewen, John | Marvell | Marvell | X | X | X | X |
| Ferretti, Vincent | Corning Incorporated | Corning Incorporated | X | X | | X |
| Feyh, German | Broadcom Corporation | Broadcom Corporation | | X | | |
| FILIPPOU, DIMITRIS | | Dimitris Filippou; I2QS | | X | X | |
| Gao, Xiangrong | Huawei Technologies Co., Ltd | Huawei Technologies Co., Ltd | X | X | X | |
| Geng, Limin | Huawei Technologies Co., Ltd | Huawei Technologies Co., Ltd | X | X | X | |
| Ghiasi, Ali | Ghiasi Quantum LLC | Ghiasi Quantum LLC; Marvell Semiconductor, Inc. | X | X | X | X |
| Goodwill, Dominic | | Huawei Technologies Canada; Huawei Technologies Co., Ltd | X | X | | |
| Gore, Brandon | Samtec, Inc. | Samtec, Inc. | X | X | | |
| Gorshe, Steven Scott | Microchip Technology, Inc. | Microchip Technology, Inc. | X | X | X | |

| | | | | | | |
|--------------------------|--|--|---|---|---|---|
| Gustlin, Mark | Cisco Systems, Inc. | Cisco Systems, Inc. | X | X | X | X |
| Haasz, Jodi | IEEE-SA | IEEE Standards Association (IEEE-SA) | | | X | X |
| Han, Ruibo | China Mobile Communications Corporation (CMCC) | China Mobile Communications Corporation (CMCC) | X | X | | |
| He, Xiang | Huawei Technologies Co., Ltd | Huawei Technologies Co., Ltd | X | X | X | X |
| Healey, Adam | Broadcom Inc. | Broadcom Inc. | X | X | X | X |
| Heck, Howard | Intel Corporation | Intel Corporation | X | X | X | X |
| Hidaka, Yasuo | Credo Semiconductor | Credo Semiconductor | X | | X | X |
| Huang, Kechao | Huawei Technologies Co., Ltd. | Huawei Technologies Co., Ltd. | X | X | X | X |
| HUANG, QINHUI | Huawei Technologies Co., Ltd | Huawei Technologies Co., Ltd | X | | X | |
| Huber, Thomas | Nokia | Nokia | X | X | X | |
| Hutchins, Jeff | Ranovus | Ranovus | | | X | X |
| Isono, Hideki | Fujitsu Optical Components Limited | Fujitsu Optical Components Limited | X | X | X | X |
| Issenhuth, Tom | Issenhuth Consulting, LLC | Huawei Technologies Co., Ltd | X | X | X | X |
| Jackson, Kenneth | Sumitomo Electric Device Innovations, USA | Sumitomo Electric Industries, LTD | X | X | X | X |
| Jafari, Amir | | Semtech | | X | | |
| Jiang, Chendi | Huawei Technologies Co., Ltd | Huawei Technologies Co., Ltd | | | | X |
| Jimenez, Andrew | Anixter Inc. | Anixter Inc. | | | X | |
| Johnson, John | Broadcom Corporation | Broadcom Corporation | X | | X | X |
| Jonsson, Ragnar | Marvell Semiconductor, Inc. | Marvell | | X | | |
| Kao, Chienping | Intel Corporation | Cornelis Networks | | | X | |
| Kareti, Upen | Cisco Systems, Inc. | Cisco Systems, Inc. | | X | | |
| Kim, Kihong/Joshua | Hirose Electric (USA), Inc. | Hirose Electric (USA), Inc. | X | X | X | X |
| Kim, Yongbum | Tenstorrent | Tenstorrent | X | X | X | |
| Kinningham, Alan | I-PEX CONNECTORS | I-PEX (division of Dai-Ichi Seiko) | X | X | | X |
| Klempa, Michael | Amphenol Corporation | Amphenol Corporation | X | | X | |
| Klingensmith, William | U.S. Federal Government | DoD | | | X | X |
| Koch, Lavi | | Lavi Koch Nvidia | X | | | |
| Kochuparambil, Elizabeth | Cisco Systems, Inc. | Cisco Systems, Inc. | X | X | | |
| Koehler, Daniel | MorethanIP | Synopsys, Inc. | X | X | | |
| Kondo, Taiji | MegaChips Corporation | Dexerials Corporation | X | X | X | |
| Kota, Kishore | Marvell Semiconductor, Inc. | Marvell Semiconductor, Inc. | X | X | | |
| Kuschnorov, Maxim | Huawei Technologies Duesseldorf GmbH | Huawei Technologies Duesseldorf GmbH | X | | | |
| Lam, Cedric | | Google | X | | X | X |
| Lambert, Angela | | Corning Incorporated | X | | X | X |
| Lapierre, Dominic | | EXFO Inc. | | X | X | |
| Law, David | Hewlett Packard Enterprise | Hewlett Packard Enterprise | X | | X | |
| Lawson, Matthew | Cisco Systems, Inc. | Cisco Systems, Inc. | X | X | X | X |
| Le Cheminant, Greg | Keysight Technologies | Keysight Technologies | | | X | X |
| Levin, Itamar | | Intel Corporation | X | | | |
| Lewis, David | Lumentum Inc. | Lumentum Inc. | X | X | | X |
| Li, Mike-Peng | Intel Corporation | Intel Corporation | X | X | X | X |

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|---------------------|---|--|---|---|---|---|
| Li, Pei-Rong | MediaTek Inc. | MediaTek Inc. | X | X | X | X |
| Lim, Jane | Cisco Systems, Inc. | Cisco Systems, Inc. | X | X | | |
| Lin, Youxi | Huawei Technologies Duesseldorf GmbH | Huawei Technologies Co., Ltd | | | X | X |
| Liu, Cathy | | Broadcom Corporation | | X | | |
| Liu, Hai-Feng | HG Genuine | HG Genuine | X | X | X | X |
| LIU, XIANG | Huawei R&D USA | Huawei Technologies Co., Ltd | | | X | |
| Lu, Yuchun | Huawei Technologies Co., Ltd | Huawei Technologies Co., Ltd | X | X | X | |
| Lusted, Kent | Intel Corporation | Intel Corporation | X | X | X | |
| Maguire, Valerie | The Siemon Company | The Siemon Company | X | | X | |
| Mak, Gary | Marvell Corporation | inphi | X | X | X | X |
| Maki, Jeffery | Juniper Networks, Inc. | Juniper Networks, Inc. | X | X | X | X |
| Malicoat, David | Malicoat Networking Solutions | Malicoat Networking Solutions; SENKO Advanced Components | X | X | X | X |
| Maniloff, Eric | Ciena Corporation | Ciena Corporation | X | X | X | |
| Marris, Arthur | Cadence Design Systems, Inc. | Cadence Design Systems, Inc. | X | X | X | |
| Mazzini, Marco | Cisco Systems, Inc. | Cisco Systems, Inc. | | | X | X |
| McMillan, Larry | Western Digital Corporation | Western Digital Corporation | | X | | |
| Mellitz, Richard | Samtec, Inc. | Samtec, Inc. | X | X | X | X |
| Meltser, Roman | | NVIDIA Corporation | X | X | X | X |
| mi, guangcan | Huawei Technologies Co., Ltd | Huawei Technologies Co., Ltd | | X | X | X |
| Moorwood, Charles | Keysight Technologies | Keysight Technologies | X | X | X | X |
| Mu, Jianwei | | Hisense | | | X | X |
| Muller, Shimon | Enfabrica Corp. | Enfabrica Corp. | X | X | X | X |
| Murty, Ramana | Broadcom Inc. | Broadcom Corporation | X | X | X | |
| Muth, Karlheinz | Broadcom Corporation | Broadcom Corporation | X | X | X | X |
| Nakamoto, Edward | Spirent Communications | Spirent Communications | X | X | X | |
| Nering, Raymond | Cisco Systems, Inc. | Cisco Systems, Inc. | X | X | X | X |
| Nicholl, Gary | Cisco Systems, Inc. | Cisco Systems, Inc. | X | | X | X |
| Nicholl, Shawn | Xilinx | Advanced Micro Devices (AMD) | X | X | X | X |
| Noujeim, Leesa | Google | Google | | | | X |
| Nowell, Mark | Cisco Systems, Inc. | Cisco Systems, Inc. | X | X | X | X |
| Ofelt, David | Juniper Networks, Inc. | Juniper Networks, Inc. | X | X | X | X |
| Omori, Kumi | NEC Corporation | NEC Corporation | | X | X | X |
| Opsasnick, Eugene | Broadcom Inc. | Broadcom Inc. | X | X | X | X |
| Palkert, Thomas | Macom, Samtec | Samtec-Macom | X | X | X | |
| PARK, CHUL SOO | Juniper Networks Inc. | Juniper Networks, Inc. | X | X | X | X |
| Parsons, Earl | CommScope, Inc. | CommScope, Inc. | X | | X | X |
| Parthasarathy, Vasu | Broadcom Corporation | Broadcom Corporation | X | X | | |
| Patra, lenin | Marvell Semiconductor, Inc. | Marvell Semiconductor, Inc. | | X | | |
| peng, semmy | | Huawei Technologies Co., Ltd | X | X | X | X |
| Pepper, Gerald | Keysight Technologies | Keysight Technologies | X | X | | |
| Piehler, David | Dell Technologies | Dell | X | X | X | |
| Pimpinella, Rick | Panduit Corp. | Panduit Corp. | | | X | X |
| Pitwon, Richard | Resolute Photonics | Resolute Photonics | | | X | |
| Quan, Yu | Huawei Technologies Co., Ltd | Huawei Technologies Co., Ltd | X | | X | |
| Rabinovich, Rick | Keysight Technologies | Keysight Technologies | X | X | X | X |

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|-------------------------|---|----------------------------------|---|---|---|---|
| Radhamohan, Rajeshmohan | Cisco Systems, Inc. | Cisco Systems, Inc. | | X | X | X |
| Rahn, Jeffrey | Facebook | Facebook | X | X | X | X |
| Ramesh, Sridhar | MaxLinear | MAXLINEAR INC | | X | | |
| Ran, Adee | Cisco Systems, Inc. | Cisco Systems, Inc. | X | X | X | |
| Ren, Hao | Huawei Technologies Co., Ltd | Huawei Technologies Co., Ltd | X | | X | X |
| Renteria, Victor | Bel Fuse | Bel Fuse | | | X | |
| Rodes, Roberto | II-VI | II-VI | X | X | X | X |
| Rush, Joshua | | UNH-IOL | X | X | | |
| Sakai, Toshiaki | Socionext Inc. | socionext | X | X | X | X |
| Sales, Marti | | HiSilicon Technologies Co., LTD. | | | X | |
| Sambasivan, Sam | AT&T | AT&T | X | X | X | |
| sanyal, madhumita | | Synopsys, Inc. | X | X | | |
| Savi, Olindo | Hubbell Incorporated | Hubbell Incorporated | X | X | X | X |
| SAWANO, Hiroshi | OITDA (Optoelectronics Industry and Technology Development Association) | OITDA | | X | | |
| Shanbhag, Megha | Tyco | TE Connectivity | | | | X |
| She, Qingya | Fujitsu Network Communications | Fujitsu Network Communications | X | X | X | |
| Shrikhande, Kapil | Marvell Semiconductor, Inc. | Marvell Semiconductor, Inc. | X | X | X | X |
| Shubochkin, Roman | OFS | OFS | | | X | |
| Shukla, Priyank | Synopsys, Inc. | Synopsys, Inc. | X | | X | |
| Sikkink, Mark | | Hewlett Packard Enterprise | X | X | X | X |
| Simms, William | NVIDIA Corporation | NVIDIA Corporation | X | X | X | X |
| Sivakolundu, Ramesh | Cisco Systems, Inc. | Cisco Systems, Inc. | | | X | X |
| Slavick, Jeff | Broadcom Inc | Broadcom Inc | X | X | X | X |
| Sluyski, MIke | | Cisco Systems, Inc. | X | X | X | |
| Sommers, Scott | Molex LLC | Molex Incorporated | X | X | X | X |
| Son, Yung Sung | Optomind Inc | Optomind Inc | X | | X | X |
| Sorbara, Massimo | GLOBALFOUNDRIES | GLOBALFOUNDRIES | X | X | X | X |
| Sprague, Edward | Infinera Corporation | Infinera Corporation | X | X | X | |
| Srivastava, Atul | NEL-America | NTT Electronics | X | X | X | |
| Stassar, Peter | Huawei Technologies Co., Ltd | Huawei Technologies Co., Ltd | X | X | X | X |
| SU, CHANGZHENG | | Huawei Technologies Co., Ltd | X | X | X | |
| Sun, Junqing | Credo Semiconductor | Credo Semiconductor | X | | | |
| Sun, Yi | | OFS | | X | X | X |
| Tailor, Bharat | Semtech Canada Corporation | Semtech Canada Corporation | | | X | |
| TAKAHARA, TOMOO | FUJITSU LABORATORIES LIMITED | FUJITSU LIMITED | X | X | X | X |
| TAZEBAY, MEHMET | Broadcom Corporation | Broadcom Corporation | X | X | X | |
| Terada, Masaru | FURUKAWA ELECTRIC | FURUKAWA ELECTRIC | X | | X | X |
| Theodoras, James | HG Genuine | HG Genuine | X | X | | |
| Thompson, lance | II-VI | II-VI | | | | X |
| tomofuji, hiroaki | | FUJITSU | X | | X | |
| Toyserkani, Pirooz | Cisco Systems, Inc. | Cisco Systems, Inc. | X | X | X | X |
| Tracy, Nathan | TE Connectivity | TE Connectivity | X | X | X | X |
| Tran, Viet | Keysight Technologies | Keysight Technologies | X | X | X | X |

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|------------------------|--|--|---|---|---|---|
| Ulrichs, Ed | Intel Corporation | Intel Corporation | X | X | X | |
| Venkataraman, Srinivas | | Facebook | | | X | |
| Wang, Haojie | China Mobile Communications Corporation (CMCC) | China Mobile Communications Corporation (CMCC) | X | X | X | X |
| Wang, Ruoxu | Huawei Technologies Co., Ltd | Huawei Technologies Co., Ltd | X | X | X | X |
| Wang, Xinyuan | Huawei Technologies Co., Ltd | Huawei Technologies Co., Ltd | X | X | X | X |
| Weaver, James | Arista Networks | Arista Networks | X | X | X | X |
| Welch, Brian | Cisco Systems, Inc. | Luxtera | X | X | X | X |
| Williams, Tom | Cisco Systems, Inc. | Cisco Systems, Inc. | X | X | X | X |
| Wu, Mau-Lin | MediaTek Inc. | MediaTek Inc. | X | X | X | X |
| Xu, Yu | Huawei Technologies Co., Ltd | Huawei Technologies Co., Ltd | X | X | | |
| Yin, Shuang | | Google | X | X | X | X |
| Young, James | CommScope, Inc. | CommScope | X | X | X | X |
| Yu, Rang-Chen | | SiFotonics Technologies | | X | | |
| Zhang, Bo | Marvell Technology, Inc | Marvell Technology, Inc | X | | | |
| Zhang, Tingting | | Huawei Technologies Co., Ltd | | X | | |
| Zhiwei, Yang | ZTE Corporation | ZTE Corporation | X | X | X | X |
| Zhong, Qiwen | Huawei Technologies Co., Ltd | Huawei Technologies Co., Ltd | | X | | |
| Zhou, Xiang | | Google | | X | X | |
| Zhuang, Yan | Huawei Technologies Co., Ltd | Huawei Technologies Co., Ltd | X | X | X | X |
| Zivny, Pavel | Tektronix, Inc. | Tektronix, Inc. | | X | X | |