

26 October 2023 Ad hoc Electronic Teleconference Meeting

Approved Meeting Minutes, Prepared by Kent Lusted

Meeting called to order at ~6:31 am (all times Pacific) by Kent Lusted, who was chairing the meeting.

John D’Ambrosia reminded participants of the upcoming IEEE 802 November plenary. Registration and paying a meeting fee is required. Also, presentation requests for the 3cw/3df/3dj Task Forces are due 2 November 2023.

Mark Nowell reminded participants of the upcoming joint 3df/3dj logic/optical ad hoc on 2 November. Requests for presentation are due 27 October.

Chair noted that individuals should fill out IMAT information for attendance.

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

| Presentation #1 | Agenda |
|-----------------|---|
| Presenter | Kent Lusted |
| URL | https://www.ieee802.org/3/dj/public/adhoc/electrical/23_1026/agenda_3dj_01a_adhoc_231026.pdf |

The chair asked if there were any modifications for the agenda (See slide #2) – there were none. There were no objections to the approval of the agenda, and it was considered approved by unanimous consent.

The chair noted an email had been sent out to the reflector reminding individuals to review the following IEEE SA policies-

- IEEE SA Participation Policy
- IEEE SA Copyright Policy
- IEEE SA Patent Policy

Chair asked if anyone needed any of these policies reviewed in-depth. There were no requests.

Chair presented the third slide (See Slide #26) 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 #31) 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 #35) 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 reminded participants of the IEEE Code of Ethics and Code of Conduct. (see slide #34)

The chair reviewed meeting decorum. See Slide #5.

The chair reviewed voting. See Slide #9.

Chair reminded participants to sign into the IEEE Meeting and Attendance Tool. 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 reminded participants to declare their affiliation in the online meeting. Failure to do so would result in expulsion from the meeting.

Kent Lusted passed the meeting chair responsibilities to John D’Ambrosia.

| | |
|------------------------|---|
| Presentation #2 | P802.3dj Reference Die/Device Model Parameter Values - Status Update |
| Presenter | Kent Lusted |
| URL | https://www.ieee802.org/3/dj/public/adhoc/electrical/23_1026/lusted_3dj_elec_01_231026.pdf |

Task Force Chair John D’Ambrosia noted that participants should be working to close issues in advance of the January meeting.

Questions were asked and answered.

John D’Ambrosia passed the meeting chair responsibilities back to Kent Lusted.

Chair reminded participants to sign into the IEEE Meeting and Attendance Tool.

| | |
|------------------------|---|
| Presentation #3 | IEEE P802.3dj 200Gbps/lane Cabled Backplane Channels |
| Presenter | Femi Akinwale |
| URL | https://www.ieee802.org/3/dj/public/adhoc/electrical/23_1026/akinwale_3dj_elec_01_2310.pdf |

The channel zip file contribution was posted to the Tools and Channel page (see:

<https://www.ieee802.org/3/df/public/tools/index.html>) There was a request for additional channels with shorter internal lengths.

Questions were asked and answered.

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|------------------------|--|
| Presentation #4 | C2M Cabled Host Channel Contribution with Skew Considerations |
| Presenter | Brandon Gore |

| | |
|-----|---|
| URL | https://www.ieee802.org/3/dj/public/adhoc/electrical/23_1026/gore_3dj_elec_01_231026.pdf |
|-----|---|

The channel zip file contribution was posted to the Tools and Channel page (see: <https://www.ieee802.org/3/df/public/tools/index.html>)
 Questions were asked and answered.

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

| | |
|------------------------|---|
| Presentation #5 | C2M Channel Analysis Trends Suggesting COM Parameters Path Forward |
| Presenter | Rich Mellitz |
| URL | https://www.ieee802.org/3/dj/public/adhoc/electrical/23_1026/mellitz_3dj_elec_01_231026.pdf |

Questions were asked and answered.

Chair reminded participants to sign into the IEEE Meeting and Attendance Tool.

Break at 8:15 a.m. Resumed at 8:18 a.m.

Chair reminded participants to sign into the IEEE Meeting and Attendance Tool.

| | |
|------------------------|---|
| Presentation #6 | CR/KR Channel Analysis Trends Suggesting COM Parameters Path Forward |
| Presenter | Rich Mellitz |
| URL | https://www.ieee802.org/3/dj/public/adhoc/electrical/23_1026/mellitz_3dj_elec_02_231026.pdf |

There was a request for analysis with a sweep of η_0 .
 Questions were asked and answered.

Chair noted that presentation requests for the November plenary meeting are due 2 November 2023. He reminded participants that contributions were due 6 November 2023.

Chair reminded participants to sign into the IEEE Meeting and Attendance Tool.

Meeting adjourned at ~8:55 a.m. Pacific.

Attendees (per IMAT)

| Name | Affiliation | Employer |
|------------------------|--|--|
| Akinwale, Oluwafemi | Intel Corporation | |
| Ben-Artsi, Liav | Marvell Semiconductor, Inc. | Marvell Semiconductor, Inc. |
| Bernier, Eric | Huawei Technologies Canada Co., Ltd. | Huawei Technologies Canada Co., Ltd. |
| Brown, Matthew | Alphawave | Alphawave |
| Bruckman, Leon | Huawei Technologies Co., Ltd | Huawei Technologies Co., Ltd |
| Cai, Yuefeng | Huawei Technologies Co., Ltd | Huawei Technologies Co., Ltd |
| Calvin, John | Keysight Technologies | Keysight Technologies |
| Chappell, Neveia | Keysight Technologies | Keysight Technologies |
| Chen, Chan | Independent/AOI | Self Employed |
| D'Ambrosia, John | Futurewei Technologies, U.S. Subsidiary of Huawei | Futurewei Technologies, U.S. Subsidiary of Huawei |
| Dawe, Piers J G | Nvidia | NVIDIA |
| Del Vecchio, Peter | Broadcom Corporation | |

| Name | Affiliation | Employer |
|---------------------|---|--------------------------------------|
| Dudek, Michael | Marvell | Marvell |
| Erven, Chad | Semtech Ltd | Semtech Ltd |
| Ghiasi, Ali | Ghiasi Quantum LLC; Marvell Semiconductor, Inc. | Ghiasi Quantum LLC |
| Gore, Brandon | Samtec, Inc. | Samtec, Inc. |
| Gustlin, Mark | Cisco Systems, Inc. | Cisco Systems, Inc. |
| He, Xiang | Huawei Technologies Co., Ltd | Huawei Technologies Co., Ltd |
| Healey, Adam | Broadcom Inc. | Broadcom Inc. |
| Hidaka, Yasuo | Credo Semiconductor | Credo Semiconductor |
| Jackson, Kenneth | Sumitomo Electric Industries, LTD | Sumitomo Electric Industries, LTD |
| Kareti, Upen | Cisco Systems, Inc. | Cisco Systems, Inc. |
| Kimber, Eric | Semtech Ltd | Semtech Ltd |
| Klempa, Michael | Alphawave Semi | Alphawave Semi |
| Kocsis, Sam | Amphenol Corporation | Amphenol Corporation |
| Li, Mike-Peng | Intel | Intel |
| Li, Pei-Rong | MediaTek Inc. | MediaTek Inc. |

| Name | Affiliation | Employer |
|--------------------|--|-------------------------------|
| Little, Terrance | Foxconn Electronics Inc. | Foxconn Electronics Inc. |
| Liu, Cathy | Broadcom Corporation | Broadcom Corporation |
| Liu, Karen | Nubis Communications | Nubis Communications |
| Lusted, Kent | Intel | Intel |
| Maki, Jeffery | Juniper Networks, Inc. | Juniper Networks, Inc. |
| Malicoat, David | Malicoat Networking Solutions; SENKO Advanced Components | Malicoat Networking Solutions |
| Marris, Arthur | Cadence Design Systems, Inc. | Cadence Design Systems, Inc. |
| Mellitz, Richard | Samtec, Inc. | Samtec, Inc. |
| mi, guangcan | Huawei Technologies Co., Ltd | Huawei Technologies Co., Ltd |
| Moorwood, Charles | Keysight Technologies | Keysight Technologies |
| Muller, Shimon | Enfabrica | Enfabrica Corp. |
| MURAKAMI, YUKI | Fujitsu Limited | FUJITSU LIMITED |
| Muth, Karlheinz | Broadcom Corporation | Broadcom Corporation |
| Naderi Shahi, Sina | Marvell | |

| Name | Affiliation | Employer |
|-------------------|--|------------------------------|
| Nering, Raymond | Cisco Systems, Inc. | Cisco Systems, Inc. |
| Noujeim, Leesa | Google | Google |
| Nowell, Mark | Cisco Systems, Inc. | Cisco Systems, Inc. |
| Ofelt, David | Juniper Networks, Inc. | Juniper Networks, Inc. |
| Opsasnick, Eugene | Broadcom Inc. | Broadcom Inc. |
| PARK, CHUL SOO | Juniper Networks, Inc. | Juniper Networks Inc. |
| Rabinovich, Rick | Keysight Technologies | Keysight Technologies |
| Ran, Adee | Cisco Systems, Inc. | Cisco Systems, Inc. |
| Ren, Hao | Huawei Technologies Co., Ltd | Huawei Technologies Co., Ltd |
| Rodes, Roberto | II-VI | II-VI |
| Sakai, Toshiaki | socionext | Socionext Inc. |
| Sella, Omer | Imperial College London | |
| Shakiba, Mohammad | Huawei Technologies Canada; Huawei Technologies Co., Ltd | Huawei Technologies Canada |
| Shanbhag, Megha | TE Connectivity | Tyco |

| Name | Affiliation | Employer |
|--------------------|----------------------------|----------------------------|
| Shoval, Ayal | Synopsys, Inc. | Synopsys, Inc. |
| Sikkink, Mark | Hewlett Packard Enterprise | Hewlett Packard Enterprise |
| Simms, William | NVIDIA Corporation | NVIDIA Corporation |
| Sommers, Scott | Molex Incorporated | Molex LLC |
| Sorbara, Massimo | GLOBALFOUNDRIES | GLOBALFOUNDRIES |
| Sun, Junqing | Credo Semiconductor | Credo Semiconductor |
| Tang, Yi | Cisco Systems, Inc. | Cisco Systems, Inc. |
| Toyserkani, Pirooz | Cisco Systems, Inc. | Cisco Systems, Inc. |
| Tracy, Nathan | TE Connectivity | TE Connectivity |
| Tran, Viet | Keysight Technologies | Keysight Technologies |
| Ulrichs, Ed | Intel | Intel |
| Weaver, James | Arista Networks | Arista Networks |
| Wingrove, Michael | Ciena Corporation | Ciena Corporation |
| Wu, Mau-Lin | MediaTek Inc. | MediaTek Inc. |
| Yin, Shuang | Google | |

| Name | Affiliation | Employer |
|-------------|------------------------------|------------------------------|
| Zhuang, Yan | Huawei Technologies Co., Ltd | Huawei Technologies Co., Ltd |