Unapproved Minutes

IEEE 802.3 Beyond 10 km Optical PHYs Study Group
Plenary Meeting
September 10, 2018
Spokane, WA, USA

Prepared by John D'Ambrosia

All times PDT
Location: The Historic Davenport Hotel, Spokane, WA, USA.

The meeting called to order at 9:00am, Sept 10, 2018.

Chaired by John D'Ambrosia, Futurewei, Subsidiary of Huawei

General Introductions were made by participants.

Presentation #1 –	Agenda and General Information
Presenter:	John D'Ambrosia, Futurewei, Subsidiary of Huawei
URL:	http://www.ieee802.org/3/B10K/public/18_09/agenda_b10k_01_0918.pdf

Motion #1: Move to approve the agenda

Moved by:	Trowbridge
Second by:	Anslow
Results:	The motion passed by voice vote without objection

Chair asked if there were any reporters in the room. Nobody identified themselves as representing the

press. Chair showed IEEE 802 Participation slide.

Chair reviewed Study Group information and reminded individuals to sign up for the reflector.

Chair noted attendance tools.

Motion #2: Approval of noted minutes
- July 2018 Plenary -
  http://www.ieee802.org/3/B10K/public/18_07/minutes_b10k_01_0718_unapproved.pdf

Moved by:	Pete Anslow
Second by:	Peter Stassar
Results:	The motion passed by voice vote without objection

Chair read the Pre-PAR Patent Policy for IEEE-SA meetings.

Chair reviewed Ground rules and the role of the chair.

The Chair reviewed important bylaws, rules, & references, and gave an overview of the IEEE 802.3 Standards Process.

Chair reviewed Study Group Chartering Motion –

> Move that the IEEE 802.3 Ethernet Working Group authorizes the formation of a study group to develop a Project Authorization Request (PAR) and Criteria for Standards Development (CSD) responses for "Beyond 10km Optical PHYs for 50 Gb/s, 100 Gb/s, 200 Gb/s, and 400 Gb/s Ethernet"

Chair reviewed goals for week -
- ➢ Discuss anticipated 802.3cn project
- ➢ 4 technical presentation
- ➢ Liaisons
    - ➢ ITU-T - Progress on G.698.2
    - ➢ OIF – 400ZR Interop Project

Chair reviewed liaisons:
- ➢ ITU-T – Progress on G.698.2
    - ➢ ITU-T SG15 to IEEE 802.3 regarding progress on G.698.2
- ➢ OIF Liaison - 400ZR Interop Project
    - ➢ http://www.ieee802.org/3/minutes/sep18/incoming/OIF_to_IEEE_802d3_400ZR_Aug_2018.pdf

Chair noted that there had been a late request for presentation from Mengyuan Huang of SiFotonics and Gary Nicholl from Cisco had added material to his presentation. There were no objections to hearing either presentation.

D'Ambrosia asked Pete Anslow to chair the meeting while he presented.

Presentation #2 -   The Beyond 10km Optical PHYs Project: An Overview
Presenter: John D'Ambrosia, Futurewei, Subsidiary of Huawei
URL: http://www.ieee802.org/3/B10K/public/18_09/dambrosia_b10k_01_0918.pdf

General Discussion

D'Ambrosia resumed chairing the meeting.

Presentation #3 -   The road to a completed standard
Presenter: Pete Anslow, Ciena
URL: http://www.ieee802.org/3/B10K/public/18_09/anslow_b10k_01_0918.pdf

General Discussion

Break at 10:22 am

Reconvened at 11:00 am

Presentation #4 -   200G EML Fiber Propagation Result
Presenter: Ken Jackson, Sumitomo Electric Group
URL: http://www.ieee802.org/3/B10K/public/18_09/jackson_b10k_01_0918.pdf

General Discussion

Presentation #5 -   Single and qual channel APD receiver performance at 25Gbaud
Presenter: Mengyuan Huang, SiFotonics
URL: http://www.ieee802.org/3/B10K/public/18_09/huang_b10k_01a_0918.pdf

General Discussion

It was noted that the word "qual" in the title should be "quad." It was also noted that on Slide #5 TDECQ should be SECQ. Mengyuan indicated he would update the presentation (note – updated presentation indicated above).

Proposed liaison responses were considered by the study group.

Presentation #6   Proposed Draft Liaison Response - ITU-T SG15 to IEEE 802.3 regarding progress on G.698.2
Presenter: John D'Ambrosia, Futurewei, Subsidiary of Huawei
URL: http://www.ieee802.org/3/B10K/public/18_09/dambrosia_b10k_03_0918.pdf

General Discussion

Updated Liaison   http://www.ieee802.org/3/B10K/public/18_09/IEEE_802d3_to_ITU_B10k_0918_draft.pdf

Presentation #7   Proposed Draft Liaison Response - OIF to IEEE 802.3 regarding 400ZR Interop Project
Presenter: John D'Ambrosia, Futurewei, Subsidiary of Huawei
URL: http://www.ieee802.org/3/B10K/public/18_09/dambrosia_b10k_02_0918.pdf

General Discussion

Updated Liaison   http://www.ieee802.org/3/B10K/public/18_09/IEEE_802d3_to_ITU_B10k_0918_draft.pdf

Break   Approximately 11:40pm
Reconvened   1:01pm

Presentation #8-   Architectural considerations in support of 100G and 400G 80km DWDM PHYs
Presenter: Gary Nicholl, Cisco
URL: http://www.ieee802.org/3/B10K/public/18_09/nicholl_b10k_01a_0918.pdf

General Discussion

Chair indicated that he would be appointing an ad hoc to discuss 100G architecture.

Presentation #9 -   400G FEC and Framing for 80km
Presenter: Ilya Lyubomirsky, Inphi
URL: http://www.ieee802.org/3/B10K/public/18_09/lyubomirsky_b10k_01a_0918.pdf

General Discussion

Presentation #10 -   Considerations for 100G FEC and Framing for 80km over a DWDM system
Presenter: Ilya Lyubomirsky, Inphi
URL: http://www.ieee802.org/3/B10K/public/18_09/lyubomirsky_b10k_02a_0918.pdf

General Discussion

Attendance polls were taken –
- Attend Nov 2018 Plenary, Bangkok, Thailand
- Y: 32   N: 4   M: 13

- Attend Jan 2019 Interim, Long Beach, CA, USA
- Y: 36   N: 2   M: 11

Motion #3:   Move that the IEEE 802.3 Beyond 10km Study Group approve:
- IEEE_802d3_to_ITU_B10k_0918_draft
- IEEE_802d3_to_OIF_B10k_0918_draft

with editorial license granted to the Chair (or his appointed agent) as liaison communication from the IEEE 802.3 Working Group to ITU-T and OIF.
Technical   (>=75%)
M: Pete Anslow
S: Steve Trowbridge
Results: Passed by voice vote without objection

Chair reviewed next meetings
- Nov 2018
  - Week of Nov 12
  - Marriott Marquis Queen's Park
  - Bangkok, Thailand
- Jan 2019
  - Week of Jan 14
  - Hilton Long Beach
  - Long Beach, CA, USA

- Mar 2019
  - Week of March 11
  - Fairmont Hilton
  - Vancouver, BC, Canada
- May 2019
  - Week of May 20
  - Location and Venue TBD
- July 2019
  - Week of July 15
  - Austria Congress Centre
  - Vienna, Austria

Chair re-iterated that he would be appointing an ad hoc for 100G architecture, as well as another on compliance metrics.

Motion #4:   Motion to adjourn.

Moved by:	Dave Ofelt
Second by:	Gary Nicholl
Results (all):	Approved by voice vote without objection
Motion	Passes

Meeting adjourned 2:50 pm.

Attendees

Last Name	First Name	Employer	Affiliations	Mon
Anslow	Pete	Ciena Corporation	Ciena Corporation	x
Baca	Rich	Microsoft	Microsoft	x
Bo	Gao	Huawei	Huawei	x
Bouda	Martin	Fujitsu	Fujitsu	x
Braun	Ralf-Peter	Deutsche Telekom	Deutsche Telekom	x
Burrell	Gary	Elenion Technologies	Elenion Technologies	x
Chang	Frank	Inphi	Inphi	x
Conroy	Keith	Acacia	Acacia	x
D'Ambrosia	John	Futurewei, subsidiary of Huawei	Futurewei, subsidiary of Huawei	x
DeAndrea	John	Finisar	Finisar	x
Effenberger	Frank	Huawei	Huawei	x
Ferretti	Vincent	Corning	Corning	x
Filip	Jan	Maxim Integrated Products Inc.	Maxim Integrated Products Inc.	x
Ghiasi	Ali	Ghiasi Quantum, Ghiasi Quantum / Huawei	Ghiasi Quantum, Ghiasi Quantum / Huawei	x
Gong	Zhigang	D-Net	D-Net	x
Gorshe	Steve	Microsemi	Microsemi	x
Gustlin	Mark	Xilinx	Xilinx	x
Healey	Adam	Broadcom LTD	Broadcom LTD	x
Holden	Brian	Kandou Bus	Kandou Bus	x
Huang	Mengyuan	Sifotonics	Sifotonics	x
Isono	Hideki	Fujitsu Optical Components	Fujitsu Optical Components	x
Issenhuth	Tom	Issenhuth Consulting	Issenhuth Consulting, Huawei	x
Jackson	Kenneth	Sumitomo	Sumitomo	x
Johnson	John	Broadcom	Broadcom	x
Kareti	Upen Reddy	Cisco	Cisco	x
Kimber	Mark	Semtech	Semtech	x
Klempa	Mike	UNH-IOL	UNH-IOL	x
Lapak	Jeff	UNH-IOL	UNH-IOL	x
Law	David	HPE	HPE	x
LeCheminant	Greg	Keysight Technologies	Keysight Technologies	x
Lewis	David	Lumentum	Lumentum	x
Liu	Hai-Feng	Intel	Intel	x
Liu	Karen	Lightwave Logic	Lightwave Logic	x
Lu	Yuchun	Huawei	Huawei	x
Lyubomirsky	Ilya	Inphi	Inphi	x
Maki	Jeffery	Juniper Networks	Juniper Networks	x
Mellitz	Richard	Samtec	Samtec	x
Nicholl	Gary	Cisco	Cisco	x
Nowell	Mark	Cisco	Cisco	x
Ofelt	David	Juniper Networks	Juniper Networks	x
Palkert	Tom	Molex / Macom	Molex / Macom	x
Parthasarathay	Vasudevan	Broadcom	Broadcom	x

Qi	Mingran	Huawei	Huawei	x
Quan	Mingran	Huawei	Huawei	x
Rabinovich	Rick	IXIA	IXIA	x
Rechtman	Zvi	Mellanox	Mellanox	x
Rotolo	Salvatore	STM Microelectronics	STM Microelectronics	x
Sakai	Toshiaki	Socionext	Socionext	x
Schmitt	Matt	Cablelabs	Cablelabs	x
Sommers	Scott	Molex	Molex	x
Sprague	Ted	Infinera	Infinera	x
Srivastava	Atul	NTT-EL	NTT-EL / NEL-A	x
Stassar	Peter	Huawei	Huawei	x
Summers	Robert	Maxim Integrated	Maxim Integrated	x
Takahara	Tomoo	Fujitsu Laboratories	Fujitsu Laboratories	x
Tamura	Kohichi	Oclaro Japan	Oclaro Japan	x
Terada	Masaru	OFS	OFS	x
Tracy	Nathan	TE Connectivity	TE Connectivity	x
Trowbridge	Steve	Nokia	Nokia	x
Ulrichs	Ed	Source Photonics	Source Photonics	x
Umnov	Alexander	Corning	Corning	x
Wang	Xinyuan	Huawei	Huawei	x
Xu	Yu	Huawei	Huawei	x
Yamamoto	Shuto	NTT	NTT	x
Yang		Huawei	Huawei	x
Zhuang	Yan	Huawei	Huawei	x