

Approved

IEEE 802.3 Beyond 10km Optical PHYs Study Group

December 12, 2017

Meeting Called to Order @ 10:00 am ET

Meeting Chaired by John D'Ambrosia

Presentation: Agenda and General Information

Presented by: John D'Ambrosia

URL: http://www.ieee802.org/3/B10K/public/adhoc/17_1212/dambrosia_b10k_01_171212.pdf

Agenda Review, no objections or request for modification, Approved

IEEE 802 Participation Slide Shown

IEEE Pre-PAR Patent Policy Shown

General discussion about presentation –

- Chair noted that in his opinion that there was general agreement on the need for the group to define terminology. Terms noted included - PHY, Link, DWDM, Channel, Lambda, In-line amplification, point-to-point link, lane, channel, signal
- Chair noted that if a DWDM objective were adopted for the project, it would be in SG's best interest to hold a tutorial at the plenary when the PAR was considered. A glossary for that presentation would be a good idea.

Presentation: Beyond 10km PHYs MSO Reference Channels

Presented by: Curtis Knittle

URL: http://www.ieee802.org/3/B10K/public/adhoc/17_1212/knittle_b10k_01a_171212.pdf

General Discussion

- It was noted that "coherent TRx" on slides should be changed to "TRx". Knittle agreed, and chair noted that Knittle could update the presentation, given the ad hoc discussion in the meeting. Link noted above is to corrected presentation.
- General assumption that lambda count would not be greater than 40 (20 in each direction)
- Chair noted that if the MSO application were noted in the BMP responses, that the noted -40°C to 85°C, could potentially raise an issue of technical feasibility, and the group needed data to address this.
- The fiber loss of 0.25 dB/km was considered too aggressive.

Presentation: [Considerations on objectives for Beyond 10km Ethernet Optical PHYs running over a point-to-point DWDM system](#)

Presented by: Gary Nicholl

URL: http://www.ieee802.org/3/B10K/public/adhoc/17_1212/nicholl_b10k_01_171212.pdf

General discussion about presentation. Need for clear terminology re-iterated.

Revisiting ITU-T SG15 Liaison - [http://www.ieee802.org/3/minutes/nov17/incoming/ITU_SG15-LS-73 to IEEE 802d3.pdf](http://www.ieee802.org/3/minutes/nov17/incoming/ITU_SG15-LS-73_to_IEEE_802d3.pdf). Chair had group revisit liaison, given Nov activities. No further follow-up needed at this time. Terminology was discussed again, and it was agreed that it would be useful to ask the ITU-T to provide its definitions for terms that the SG felt needed to be explored to determine an agreed upon definition.

Meeting adjourned approximately at 12 noon.

Attendees:

Individual	Employer	Affiliation
John D'Ambrosia	Futurewei, Subsidiary of Huawei	Futurewei, Subsidiary of Huawei
Alexander Umnov	Corning Optical Communications	Corning Optical Communications
Phong Pham	US Conec Ltd.	US Conec Ltd.
Curtis Knittle	CableLabs	CableLabs
Matt Schmitt	CableLabs	CableLabs
Derek Cassidy	BT	ICRG
John Johnson	Broadcom	Broadcom
Ted Sprague	Infinera	Infinera
Steve Trowbridge	Nokia	Nokia
David Law	HPE	HPE
Qing Xu	Ranovus	Ranovus
Stephen Didde	Keysight Technologies	Keysight Technologies
David Lewis	Lumentum	Lumentum
Rita Horner	Synopsys	Synopsys
David Piehler	Dell EMC	Dell EMC
Frank Chang	Inphi	Inphi
Jeff Maki	Juniper	Juniper
Nathan Tracy	TE Connectivity	TE Connectivity
David Malicoat	Malicoat Networking Solutions	Malicoat Networking Solutions Senko Advanced Components
Akinori Hayakawa	Fujitsu Laboratories	Fujitsu Laboratories
John Lively	LightCounting	LightCounting
Geoff Thompson	Independent	Independent
Gary Nicholl	Cisco	Cisco
Pete Anslow	Ciena	Ciena
Fernando Villarruel	Cisco	Cisco