IEEE 802.3 Ethernet Working Group Liaison Communication

Source: IEEE 802.3 Working Group¹

To: Frank Effenberger Rapporteur, ITU-T Q2/15

frank.effenberger@futurewei.com

Jun-ichi Kani Associate Rapporteur, ITU-T Q2/15

kani.junichi@lab.ntt.co.jp

CC: Steve Trowbridge Chair, ITU-T SG15

steve.trowbridge@nokia.com

Hiroshi Ota Advisor, ITU-T SG15

tsbsg15@itu.int

Konstantinos Karachalios Secretary, IEEE-SA Standards Board

Secretary, IEEE-SA Board of Governors

sasecretary@ieee.org

Paul Nikolich Chair, IEEE 802 LMSC

p.nikolich@ieee.org

Adam Healey Vice-chair, IEEE 802.3 Ethernet Working Group

adam.healey@broadcom.com

Jon Lewis Secretary, IEEE 802.3 Ethernet Working Group

jon.lewis@dell.com

Frank Effenberger Chair, IEEE P802.3cp Task Force

frank.effenberger@futurewei.com

From: David Law Chair, IEEE 802.3 Ethernet Working Group

dlaw@hpe.com

Subject: Liaison reply to ITU-T SG15 on coordination of bidirectional optical for access Approval: Agreed to at IEEE 802.3 interim meeting, Geneva, Switzerland, 23rd January 2020

Dear Mr Effenberger,

We want to thank the members of ITU-T Q2/15 for providing your comments against our recent drafts. Many of these were very useful and have been implemented. We would inform you that the IEEE P802.3cp 10 Gb/s, 25 Gb/s, & 50 Gb/s Bidirectional optical access PHYs project has progressed its draft to version D1.2, and has reached consensus on the various optical parameter choices for the loss budgets and wavelength plans. The most up-to-date values are summarized in the following tables, where the updates are shown in red.

¹ This document solely represents the views of the IEEE 802.3 Working Group, and does not necessarily represent a position of the IEEE, the IEEE Standards Association, or IEEE 802.

The optical path loss budgets are as follows:

Reach class	Total loss budget range	
10 km	0 to 6.3 dB	
20 km	0 to 15 dB	
40 km	5 to 18 dB	
40 km +	10 to 23 dB	

As before, there are two loss budgets for 40 km reach, reflecting the traditional ER budget (18 dB) and a budget suitable for non-engineered links (23 dB).

The center wavelengths are as follows:

Down / Up	Reach class			
wavelength (nm)				
Speed	10 km	20 km	40 km	
10Gb/s NRZ	1330 / 1270 ±10nm	1330 / 1270 ±10nm	1330 / 1270 ±10nm	
25Gb/s NRZ	1330 / 1270 ±10nm	1314 / 1289 ±8nm	1314 / 1289 ±8nm	
50Gb/s PAM4	1330 / 1270 ±10nm	1314 / 1289 ±8nm	1314 / 1289 ±8nm	

This is described in the next version of our draft which is attached. It would be appreciated if you could review the draft and have an interested party submit comments for our continued improvement of the text.

For future communications, please note that our next face to face meeting will be 16th-19th March 2020. We also plan to have a conference call 15:00-16:00 UTC 27th Feb 2020. The reflector subscription information can be found at http://www.ieee802.org/3/cp/reflector.html.

We appreciate your review and look forward to continued coordination on the development of bidirectional optical access PHYs.

Sincerely,

David J. Law

Chair, IEEE 802.3 Ethernet Working Group

Attachment: IEEE_P802d3cp_D1_2_to_SG15_0120.pdf