IEEE 802.3 Ethernet Working Group
DRAFT Liaison Communication

Source:	IEEE 802.3 Working Group[1]	
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Subject: Liaison reply to ITU-T SG15 on coordination of bidirectional optical for access
Approval: Agreed to at IEEE 802.3 interim meeting, Indianapolis, IN, USA, 12th Sep 2019

Dear Mr. Effenberger,

We want to inform you that the IEEE P802.3cp Bidirectional 10 Gb/s, 25 Gb/s, & 50 Gb/s optical access PHYs Task Force has progressed its draft and has reached consensus on the various optical parameter choices for the loss budgets and wavelength plans. These are summarized in the following tables.

The optical path loss budgets are as follows:

Reach class	Total loss budget
10 km	6.3 dB
20 km	13 dB
40 km	18 dB
40 km	23 dB

[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.

Note that for 40 km there are two loss budgets, reflecting the traditional ER budget and a budget suitable for non-engineered links.

The center wavelengths are as follows:

Down / Up wavelength (nm)	Reach class		
Speed	10 km	20 km	40 km
10 Gb/s NRZ	1330 / 1270 ±10nm	1330 / 1270 ±10nm	1330 / 1270 ±10nm
25 Gb/s NRZ	1330 / 1270 ±10nm	1310 / 1290 ±8nm	1310 / 1290 ±8nm
50 Gb/s PAM4	1330 / 1270 ±10nm	1310 / 1290 ±8nm	1310 / 1290 ±8nm

These decisions are implemented in the latest version of our draft (1.0), which is attached. We note that the next SG15 Q2 meeting is Oct. 21 to 24; if you could review the draft and have an interested party submit comments, that would be most appreciated.

For future communications, please note that our next face-to-face meeting will be 11 to 14 Nov 2019. We also plan to have a conference call 20:00 to 21:00 New York on 10 October 2019. 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 Law
Chair, IEEE 802.3 Ethernet Working Group

Attachment: 8023cp_D1p0.pdf