



IEEE 802.3 Ethernet Working Group Liaison Communication

Source: IEEE 802.3 Working Group¹

To: Brian James, P.E., Chair, Interface Practices Subcommittee, Society of Cable and Telecommunications Engineers, brian.james@ieee.org
Mark Conner, Chair, IPS Working Group 5, SCTE, mark.conner@corning.com

CC: Paul Nikolich, Chair, IEEE 802 LMSC (p.nikolich@ieee.org)
Adam Healey, Secretary, IEEE 802.3 Ethernet Working Group (adam.healey@lsi.com)
Glen Kramer, Chair, IEEE P802.3av Task Force (glen.kramer@teknovus.com)

Subject: Liaison to SCTE Interface Practices Subcommittee from IEEE 802.3

From: David Law – Chair, IEEE 802.3 Ethernet Working Group (David_Law@3Com.com)

Approval: Agreed to at IEEE 802.3 Plenary meeting, Dallas, November 13, 2008

Dear Mssrs. James and Conner and Members of the SCTE IPS,

The 802.3 Working Group thanks the SCTE IPS for their kind liaison regarding potential alignment of the optical wavelength plans of IEEE 802.3 EPON, IEEE P802.3av 10G-EPON, and SCTE RFoG. We support the basic goal of having PON standards from the two groups coexist in a harmonious way on the same fiber plant.

Draft 2.2 of the IEEE P802.3av standard, which is expected to be released shortly, specifies that all three power budget classes, PR(X)10, PR(X)20, and PR(X)30, use 1575-1580 nm in the downstream. This represents a change from earlier drafts. For your reference, attached is Table 75-1 from the draft which lists the current allocation of the wavelengths for P802.3av.

We understand the importance of timely communication between the two groups and will make every effort to promptly notify the SCTE IPS if any further changes to the IEEE P802.3av wavelength plan are made. We also request that the SCTE IPS continue to keep the 802.3 Working Group advised as to the progress of their work on RFoG.

Sincerely,

David J. Law
Chair, IEEE 802.3 Ethernet Working Group
David_Law@3Com.com

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.

Attachment

Draft Amendment to IEEE Std 802.3-2008
IEEE 802.3av 10G-EPON Task Force

IEEE Draft P802.3av/D2.2
xx December 2008

Table 75-1—Power budgets

Description	Low Power Budget		Medium Power Budget		High Power Budget		Units
	PRX10	PR10	PRX20	PR20	PRX30	PR30	
Number of fibers	1						-
Nominal downstream line rate	10.3125						GBd
Nominal upstream line rate	1.25	10.3125	1.25	10.3125	1.25	10.3125	GBd
Nominal downstream wavelength	1577						nm
Downstream wavelength tolerance	-2, +3						nm
Nominal upstream wavelength	1310	1270	1310	1270	1310	1270	nm
Upstream wavelength tolerance	±50	±10	±50	±10	±50	±10	nm
Maximum reach	≥10		≥20		≥20		km
Maximum channel insertion loss	20		24		29		dB
Minimum channel insertion loss	5		10		15		dB

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