

# **IEEE 802.3bv GEPOF Ad-Hoc PMD Value/Criteria Proposal**

**May 18, 2015  
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- 1. Introduction**
- 2. P802.3bv PMD Ad-Hoc Member List**
- 3. PMD Value/Criteria Proposal**

**Ad-Hoc has been established in order to specify PMD requirements for GEPOF technology since January 2015 and discussed about the technical issues.**

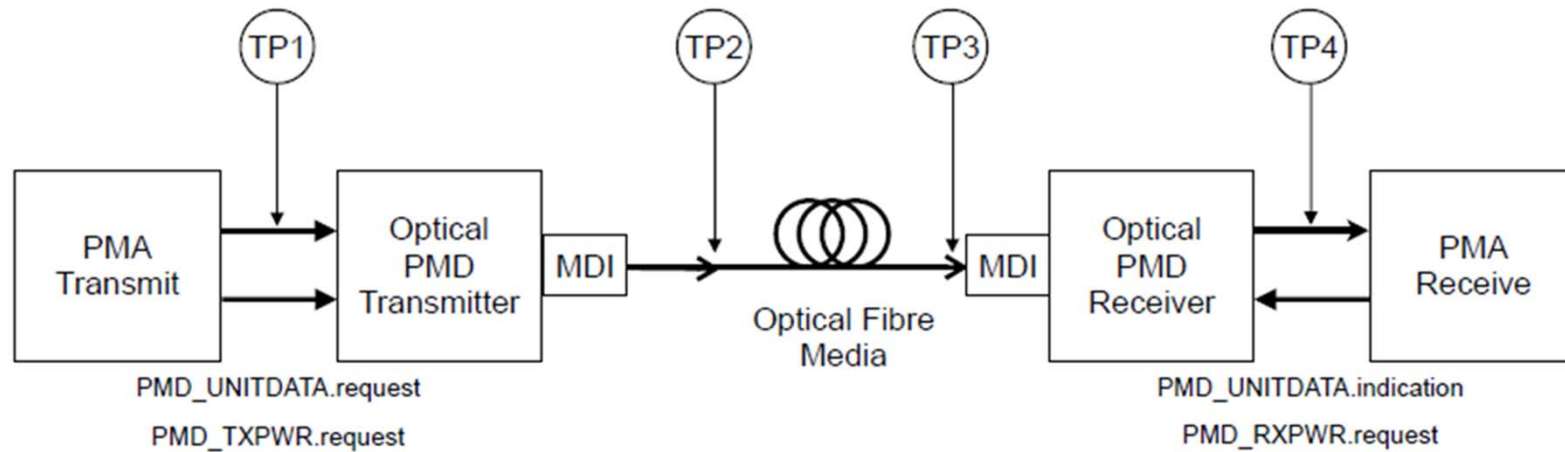
**This report is described the requirements for PMD.**

## ■ 2. P802.3bv PMD Ad-Hoc Member List

	Name	Company
1	Naoshi Serizawa	Yazaki
2	Takayuki Tajima	Yazaki
3	Rubén Pérez de Aranda Alonso	KDPOF
4	Volker Goetzfried	Avago
5	Carlos Pardo	KDPOF
6	Dylan Longhnan	Firecomms
7	Michael O'Gorman	Firecomms
8	Bob Grow	P802.3bv chair
9	Yasuhiro Hyakutake	Adamant
10	Thomas Lichtenegger	Avago
11	Takehiro Hayashi	Hat Lab
12	Shigeru Kobayashi	TE
13	Hayato Yuuki	Sumitomo
14	Yoshihiro Tsukamoto	Mitsubishi Rayon
15	Eugene Dai	Cox
16	Satoshi Takahashi	POF Promotion
17	Keisuke Kawahara	Furukawa
18	Tsunetoshi Saito	Furukawa
19	Manabu Kagami	Toyota Central R&D
20	Philippe Bolle	SKYLANE optics

**As of May15, 2015**

# Reference scheme of PMD spec points



TP2 Parameter	Units	Min	Max
LOP Type C, up to 85 deg. C	dBm	-7.5	1
LOP Type C, up to 105 deg. C	dBm	-9	1
LOP Type B	dBm	-7	1
LOP Type A	dBm	-6	1
LOPoff Type C	dBm	-	-35
Extinction ratio (ER)	dB	11	-
Launching condition EAF NA	Template	TBD	TBD
Center wavelength	nm	635	670
Spectral width	nm	-	20
Rise time	ns	-	3.0
Fall time	ns	-	3.0
Transmitter random jitter	ps RMS	-	20
2 <sup>nd</sup> order Harmonic Distortion (HD2)	dBc	-	-21
3 <sup>rd</sup> order Harmonic Distortion (HD3)	dBc	-	-29
Relative Intensity Noise (RIN)	dB/Hz	-	-137

TP3 Parameter	Units	Min	Max
Average optical power, type C up to 85deg.C (15m POF)	dBm	-18.5	1
Average optical power, type C up to 105deg.C (15m POF)	dBm	-18.5	1
Average optical power, type C up to 85deg.C (40m POF)	dBm	-17	1
Average optical power, type C up to 105deg.C (40m POF)	dBm	-17	1
Average optical power, type B up to 85deg.C (50m POF)	dBm	-17	1
Average optical power, type A up to 85deg.C (50m POF)	dBm	-17	1
Pin Off	dBm	-	-35
Pin Wakeup	dBm	-29	-

# Thank you