

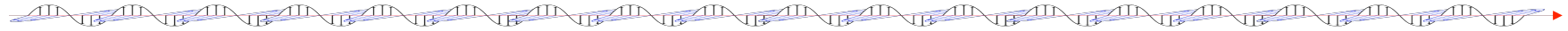


802.3 Closing Report

IEEE 802.3bm
40 Gb/s and 100 Gb/s Fiber Optic Task Force

Dan Dove
Applied Micro
Geneva, CH – 18 July 2013





Overview

- July Plenary Meeting highlights
 - 111 People signed the attendance sheet
 - 24 Presentations from various contributors
 - 2½ days of meetings
- Baseline Proposals
 - A series of votes on our SMF > 500m objective were taken. No PMD was able to achieve sufficient consensus to be adopted.
- Working Documents
 - An Informal Communication to OIF was approved to address CEI-VSR-28G and CEI-28G-MR
http://www.ieee802.org/3/bm/public/jul13/IC_802p3bm_oif_0713-v1p0.pdf
- Motions & Straw Polls
 - 6 Motions and 1 Straw Poll was held



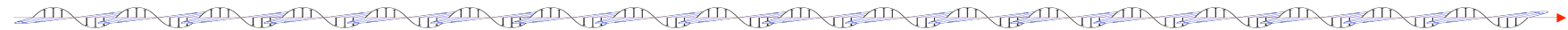


Task Force Motions & Polls





Housekeeping Motions





Motion # 1

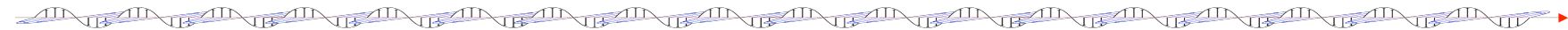
Move that IEEE P802.3bm Task Force approve the text in IC_802p3bm_oif_0713-v1p0.pdf, with editorial license granted to the Chair (or his appointed agent) as an informal communication to OIF.

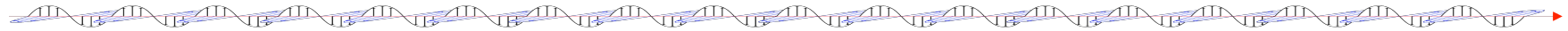
Moved: Michael Ressler
Seconded: Tom Palkert

> 50%

Y: 13 N: 0 A: 2

Passes





Motion # 2

Move to:

- Adopt proposed responses to remaining “non-controversial” comments as indicated in slide 13 of `anslow_02_0713_optx.pdf`
- Generate Draft 1.1 for TF recirculation from Draft 1.0 and closed comments

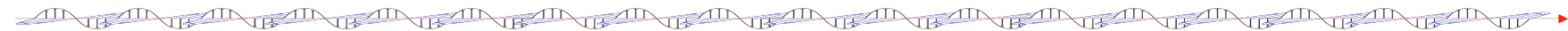
Moved: Pete Anslow

Seconded: Peter Stassar

Technical ($\geq 75\%$ required)

Y: 16 N: 0 A: 1

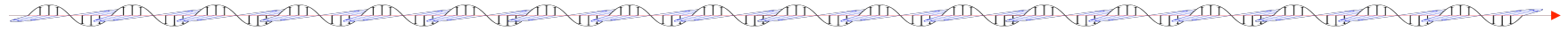
Passes





Motions & Discussion



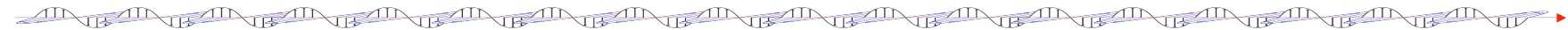


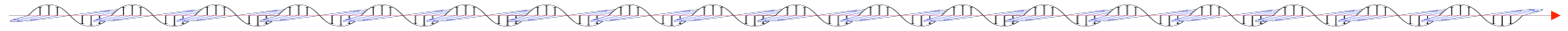
Straw Poll # 1

Straw Poll: I would support adoption of this PMD to satisfy the “at least 500m SMF” objective for inclusion into Draft 1.1 (alphabetical order)

Chicago Rules (Vote for any number of them)

- CWDM: 39
- DMT: 21
- PAM8: 31
- PSM4: 53





Motion # 3

Move to adopt draft Clause 96 based upon P802d3bm-96_DMT_02.pdf for inclusion into P802.3bm D1.1.

Moved: Toshiaki Tanaka

Seconded: Hideki Isono

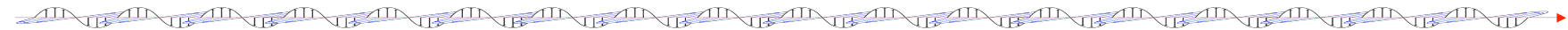
Technical ($\geq 75\%$ required)

Y: 27

N: 51

A: 31

Fails





Motion # 4

Move to adopt draft Clause 96 based upon P802d3bm-96_PAM8_02.pdf for inclusion into P802.3bm D1.1.

Moved: Arash Farhood

Seconded: Will Bliss

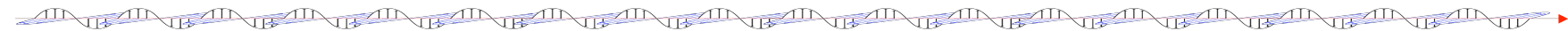
Technical ($\geq 75\%$ required)

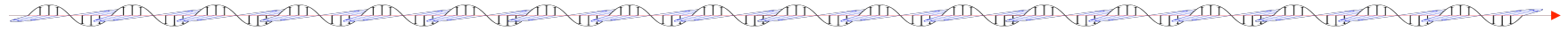
Y: 32

N: 48

A: 34

Fails





Motion # 5

Move to adopt draft Clause 96 based upon P802d3bm-96_CWDM_02.pdf for inclusion into P802.3bm D1.1.

Moved: Tek-Ming Shen

Seconded: Zeng Li

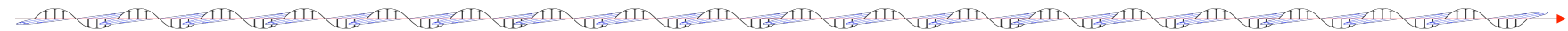
Technical ($\geq 75\%$ required)

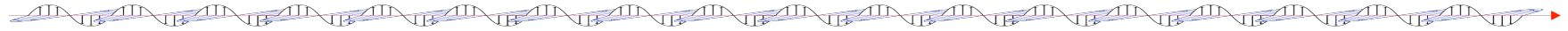
Y: 37

N: 55

A: 27

Fails





Motion # 6

Move to adopt draft Clause 96 based upon P802d3bm-96_PSM4_02.pdf for inclusion into P802.3bm D1.1.

Moved: Tom Palkert

Seconded: John Petrilla

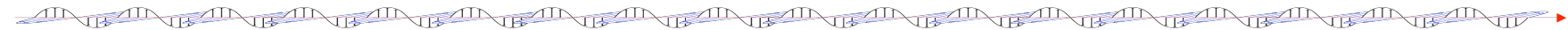
Technical ($\geq 75\%$ required)

Y: 48

N: 45

A: 26

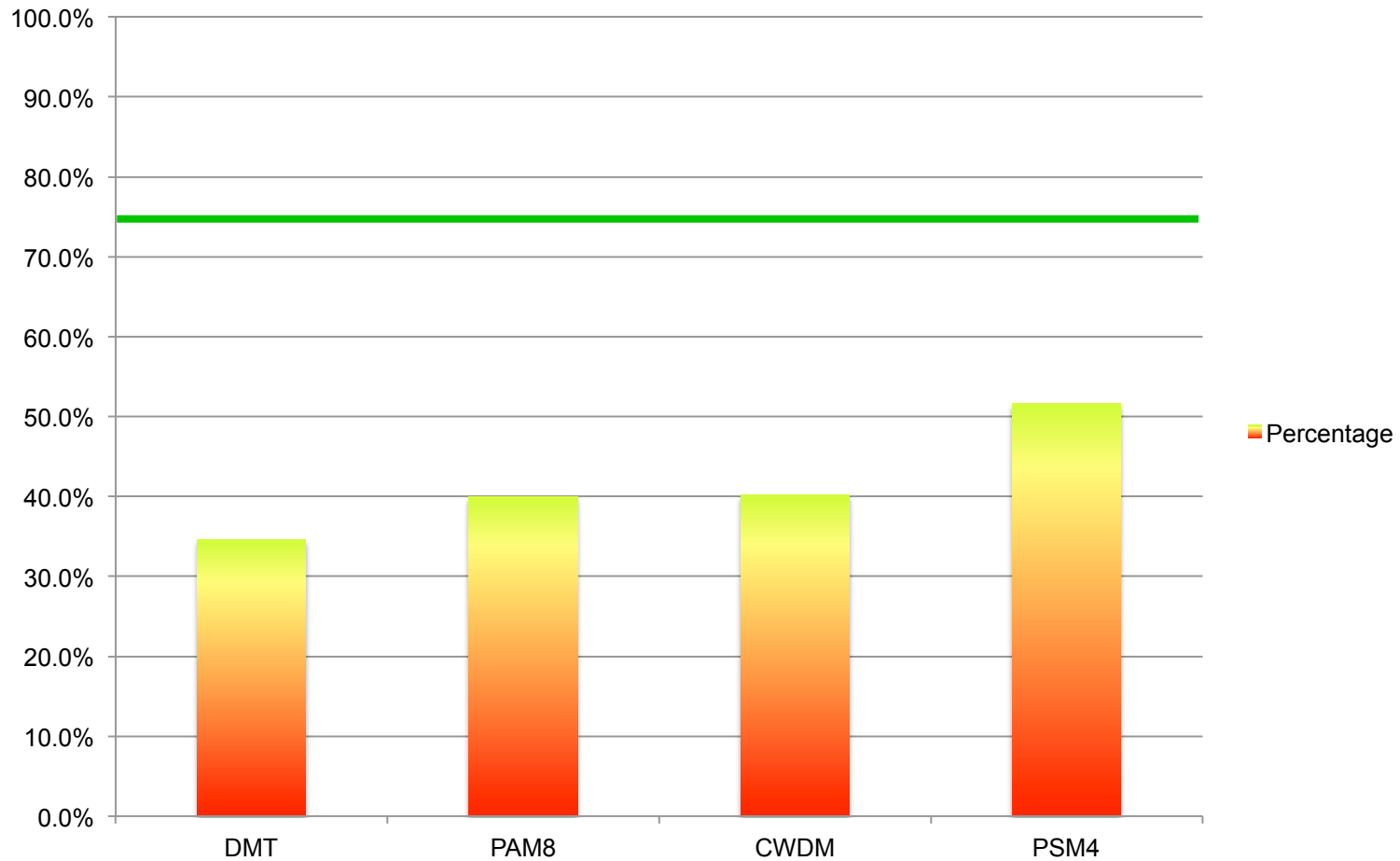
Fails



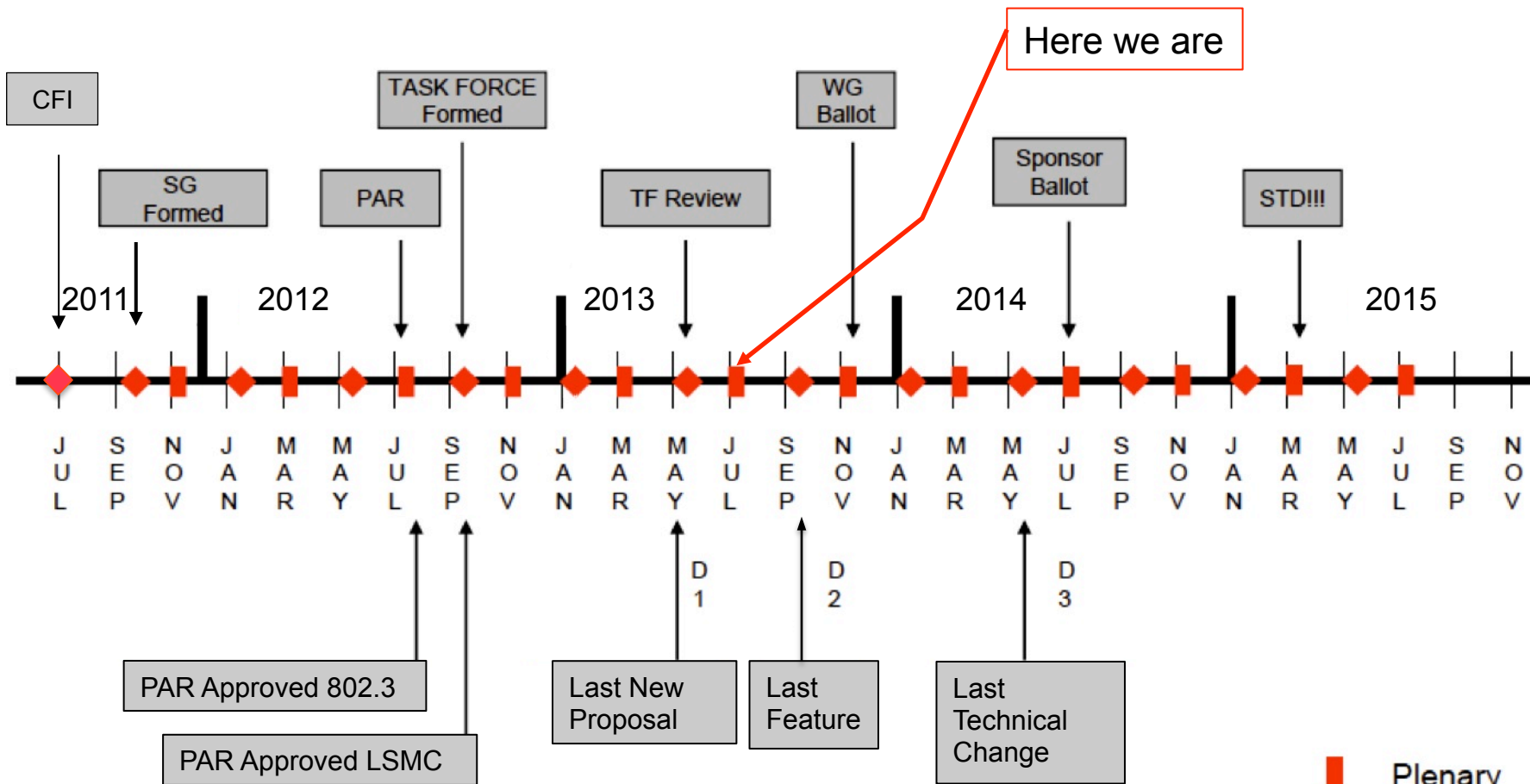


Motion To Adopt - Graphically

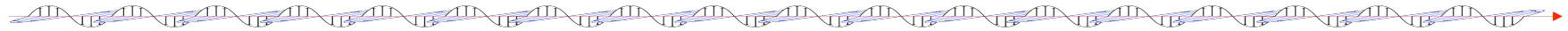
Motion to Adopt Baseline



IEEE P802.3bm Next Generation 40 Gb/s and 100 Gb/s Optical Ethernet Timeline (Adopted 28th, September 2012)



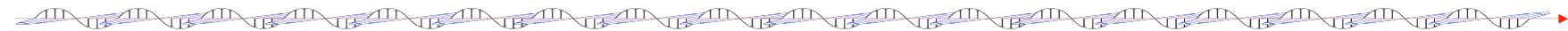
Note: Motion #15 in May 2013 extended “>500m SMF” consideration one meeting with a condition that baseline draft clause must be produced and reviewed in parallel

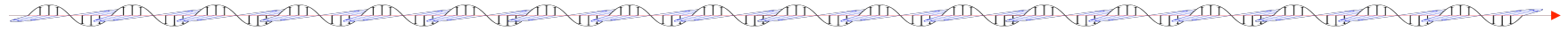


IEEE P802.3bm Next Generation 40 Gb/s and 100 Gb/s Optical Ethernet Objectives

- ✧ Support full-duplex operation only
 - ✧ Preserve the IEEE 802.3 / Ethernet frame format utilizing the IEEE 802.3 MAC
 - ✧ Preserve minimum and maximum FrameSize of current IEEE 802.3 standard
 - ✧ Support a BER better than or equal to 10^{-12} at the MAC/PLS service interface
 - ✧ Provide appropriate support for OTN
 - ✧ Define re-timed 4-lane 100G PMA to PMA electrical interfaces for chip to chip and chip to module applications
 - ✧ Define a 40 Gb/s PHY for operation over at least 40 km of SMF
 - ✧ **Define a 100 Gb/s PHY for operation up to at least 500 m of SMF (1)**
 - ✧ Define a 100 Gb/s PHY for operation up to at least 100 m of MMF
 - ✧ **Define a 100 Gb/s PHY for operation up to at least 20 m of MMF (1)**
 - ❑ Specify optional Energy Efficient Ethernet (EEE) for 40 Gb/s and 100 Gb/s operation over fiber optic cables.
- ✧ (approved by 802.3 July 2011)
- ❑ (approved by 802.3 November 2012)

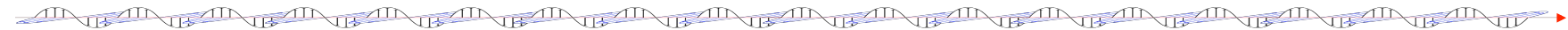
(1) Language in the 5C responses clearly articulates that this PHY may not require a new PMD





Future Effort

- Proceed with D1.1 production and recirculation process
- Plan to request Working Group Ballot in November 2013





Thank you