



IEEE P802.3 Working Group Opening Report

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

Dan Dove
Dove Networking Solutions
Affiliated with Huawei
Beijing, PRC – 17 March 2014





IEEE P802.3bm Task Force Organization

Dan Dove – Chair

Kapil Shrikhande – Vice Chair

Pete Anslow – Chief Editor

Jonathan King – MMF Editor

Ryan Latchman – CAUI-4 Editor

Peter Stassar – SMF Editor





Reflector & Web

- To subscribe to the 40 Gb/s and 100 Gb/s Fiber Optic reflector send an email to: Listserve.ieee.org with the following in the body of the message (do not include "<>"): subscribe stds-802-3-100GNGOPTX <yourfirstname> <yourlastname>
- Send 40 Gb/s and 100 Gb/s Fiber Optic reflector messages to: stds-802-3-100GNGOPTX-request@listserv.ieee.org
- Task Force web page URL:
 - <http://www.ieee802.org/3/bm/index.html>





Project Documentation

- PAR (as amended in Jan 2013)
 - http://www.ieee802.org/3/bm/P802.3bm_May2013.pdf
- 5 Criteria
 - http://www.ieee802.org/3/bm/P8023bm_5Criteria_1113.pdf
 - Objectives
 - http://www.ieee802.org/3/bm/P8023bm_Objectives_1113.pdf
- Timeline
 - http://www.ieee802.org/3/bm/timeline_0114.pdf





IEEE P802.3bm Task Force Objectives

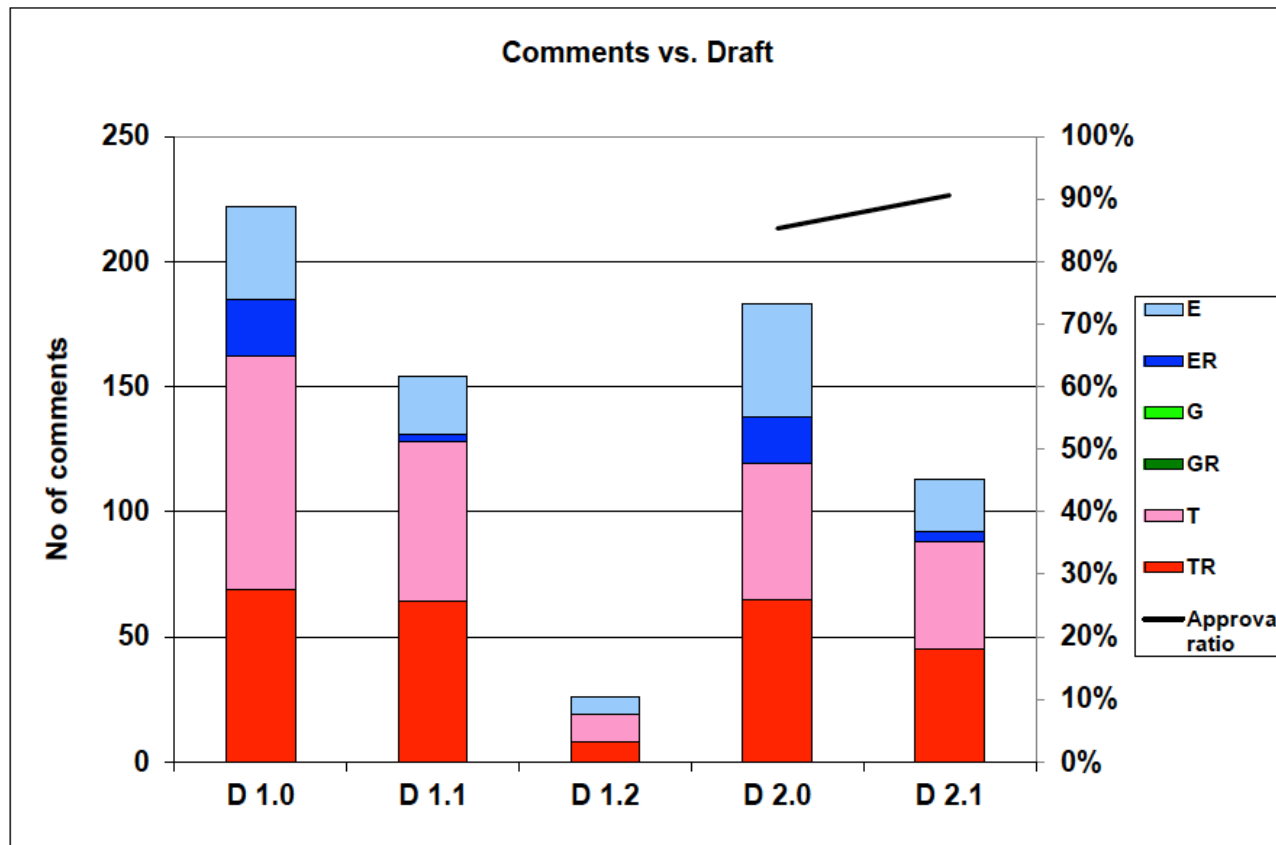
- ✧ Support full-duplex operation only
 - ✧ Preserve the IEEE 802.3 / Ethernet frame format utilizing the IEEE 802.3 MAC
 - ✧ Preserve minimum and maximum FrameSize of current IEEE 802.3 standard
 - ✧ Support a BER better than or equal to 10^{-12} at the MAC/PLS service interface
 - ✧ Provide appropriate 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 100 m of MMF
 - ❑ 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)



IEEE P802.3bm Draft Status

Comment trend

Ref: anslow_01_0314_optx.pdf (pg 5)

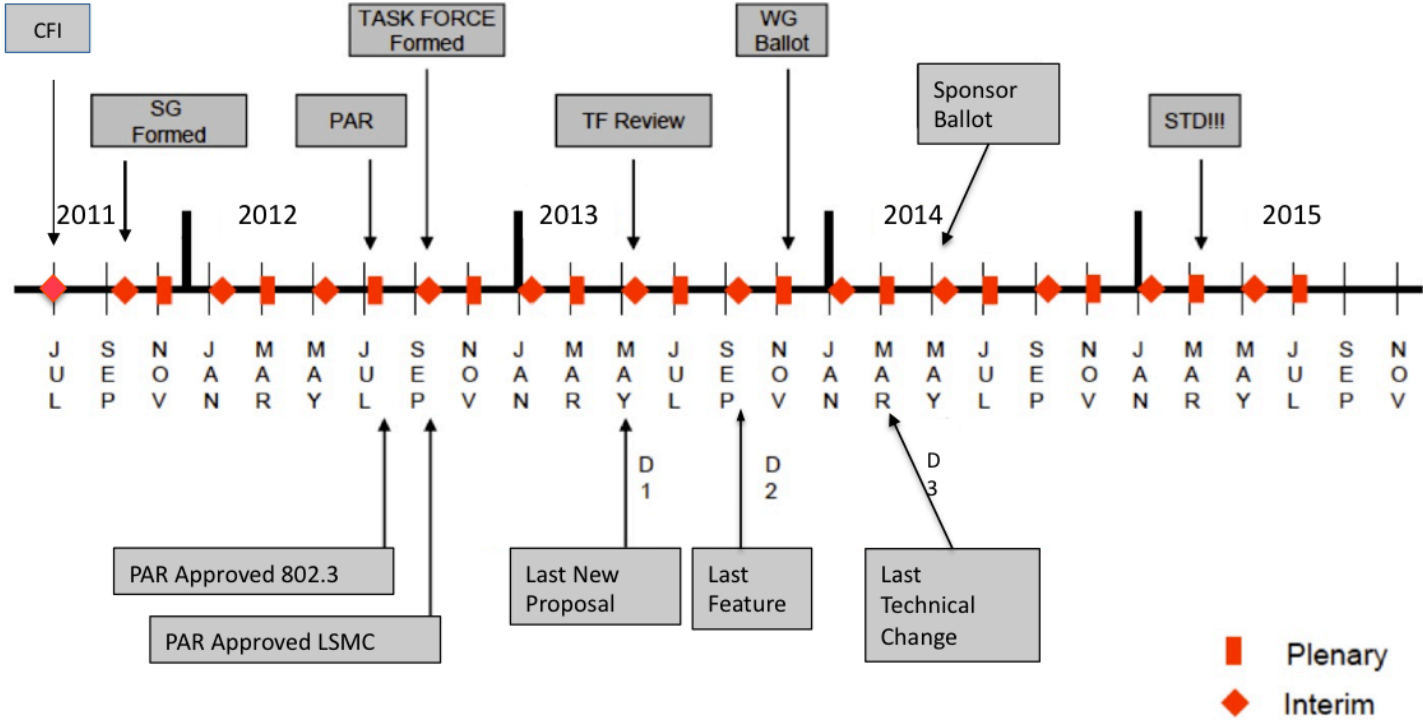


We plan to produce a draft D2.2 with minor changes at this meeting and review unsatisfied comments with 802.3 on Thursday with a goal to conditionally advance this project to Sponsor Group Ballot.



P802.3bm Adopted Timeline

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



(Approved Jan 2014 Interim Meeting)





Task Force Private Area

- URL: <http://www.ieee802.org/3/b/private/index.html>
 - Username: XXXXXXXX
 - Password: XXXXXXXX
- Please write it down...
- Note - The documents within are posted for your review only, and neither the drafts nor access information should be copied or redistributed to others in violation of document copyrights.





Activities Since November 2013 Plenary

- January 2014, Indian Wells, California USA
 - 14 Presentations
 - 1 Straw Poll performed to identify attendance for future meetings
 - 2 Motions held
 - Authorized generation of D2.1 & Prepared for recirculation of WG Ballot
 - Adopted changes to timeline to align with editorial process and ensure final standardization on existing deadline
- Ad hoc meetings (Since November 2013)
 - MMF held 8 ad hoc calls and considered 12 presentations
 - <http://www.ieee802.org/3/bm/public/mmhadhoc/meetings/index.html>
 - CAUI-4 held 7 ad hoc calls and considered 14 presentations
 - <http://www.ieee802.org/3/bm/public/cuadhoc/meetings/index.html>
- A liaison letter was received from OIF and included the OIF CEI-3.1 document
 - http://www.ieee802.org/3/bm/public/mar14/OIF_liaison_IEEE_CEI_03.1.pdf
 - Working Group Ballot of D2.0 and D2.1 were completed





Goals for this week's meeting

- Review Task Force Operation & Schedule
- Review ad hoc Activities & Reports
- Liaisons
 - Response to OIF liaison letter
 - http://www.ieee802.org/3/bm/public/mar14/liaison_oif_0114-draft.pdf
 - Informal Communication to INCITS TC T11
 - http://www.ieee802.org/3/bm/public/mar14/king_02_0314_optx.pdf
 - Informal Communication to ITU-T SG-15
 - http://www.ieee802.org/3/bm/public/mar14/king_03_0314_optx.pdf
 - Comment Resolution for WG Ballot of D2.1 and prepare for motion to seek conditional approval to advance to Sponsor Ballot on Thursday.
- Consider Motions & Discussions
 - Adopt comment resolution for Draft D2.1 and produce D2.2
 - Request conditional approval from 802.3 to move to Sponsor Ballot out of our May interim meeting.
- Wrap Up & Future Meeting Discussion





Meeting Info

We are meeting the following days/times/location

9:00am – 5:00pm Tuesday, Grand Ballroom D

1:00pm ** – 5:00pm on Wednesday, Grand Ballroom D

9:00am – 12:00pm Thursday, Grand Ballroom D

** 400G Study Group will use our Grand Ballroom D from 9:00am – 12:00pm. We will start immediately upon their conclusion on Wednesday so prepare to attend earlier. An announcement will go out on Tuesday evening with an estimated new start time.

See the website for presentations and minutes

<http://www.ieee802.org/3/bm/public/index.html> (Public Index)

<http://www.ieee802.org/3/bm/public/mar14/index.html> (March Index)





Thank you

