



IEEE P802.3 Working Group Opening Report

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

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San Antonio, CA - USA – 3 November 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.
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- ✧ (approved by 802.3 July 2011)
 - ❑ (approved by 802.3 November 2012)

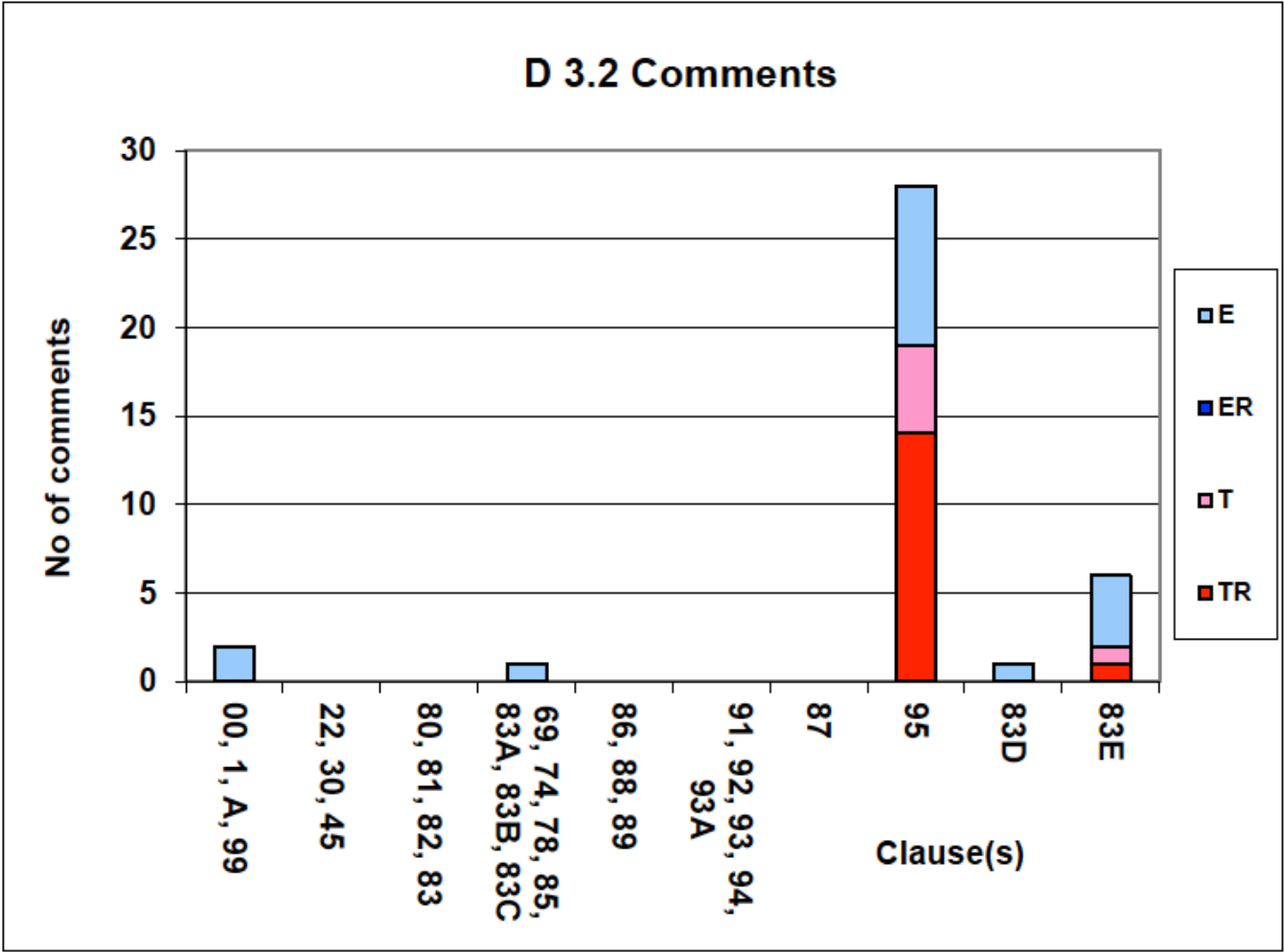




IEEE P802.3bm Draft Status

Comment distribution

Ref: anslow_01_1114_optx.pdf (pg 4)

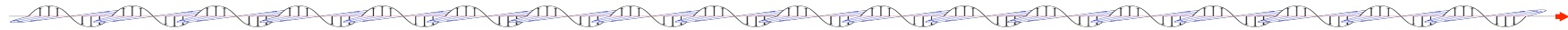
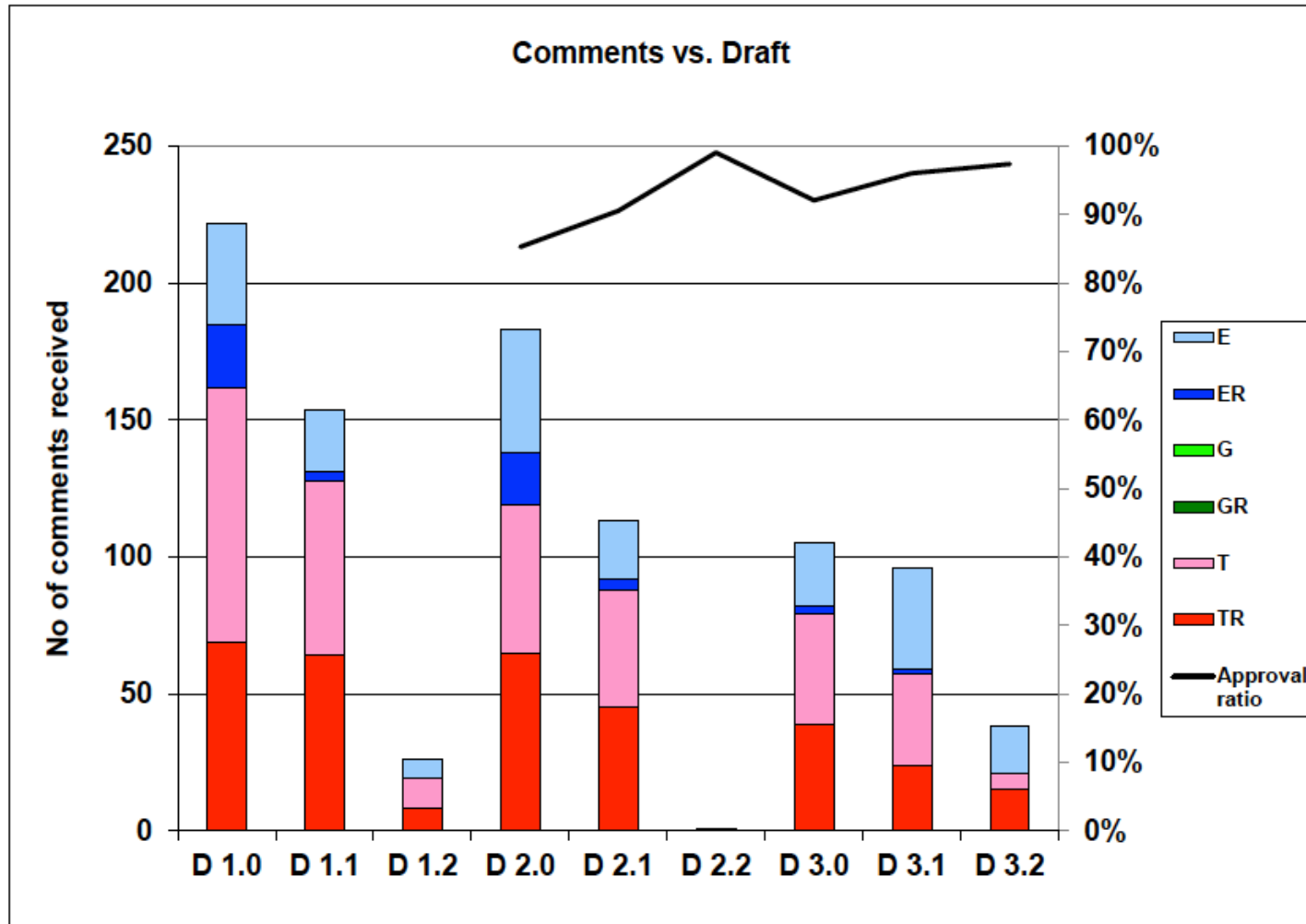




IEEE P802.3bm Draft Status

Comment trend

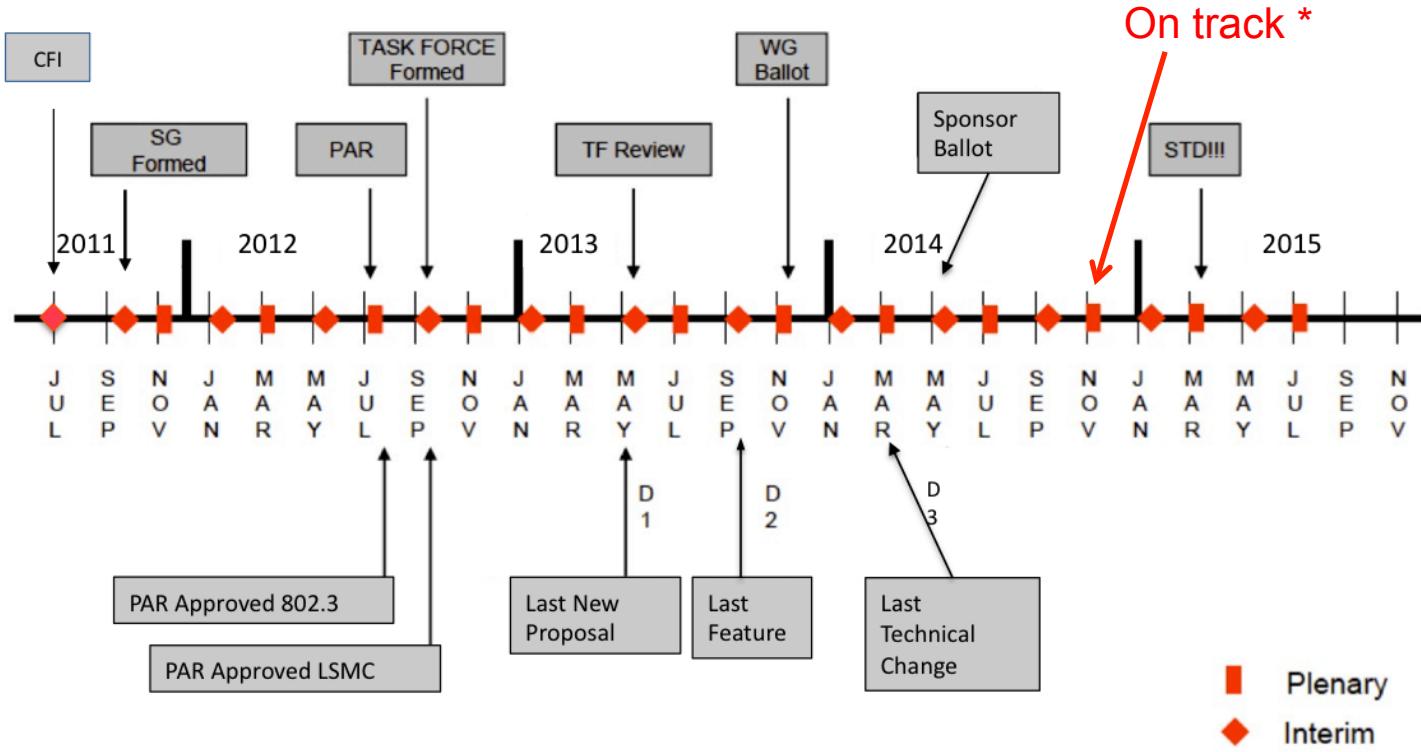
Ref: anslow_01_1114_optx.pdf (pg 5)





P802.3bm Adopted Timeline

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



(Approved Jan 2014 Interim Meeting)

* Depending on this meeting, may need an interim meeting in December to address comments on D3.3



Activities Since July 2014 Plenary (1 of 2)

- September 2014, Kanata, Ottawa Canada
 - 10 Presentations provided
 - 1 Motion made
 - Move to:
 - Adopt responses to comments as produced in the September 2014 Interim meeting.
 - Adopt proposed responses to remaining “non-controversial” comments as indicated in anslow_01_0914_optx.pdf
 - Generate Draft 3.2 for Sponsor Ballot recirculation from Draft 3.1 and adopted responses to closed comments
- Moved: Pete Anslow
Seconded: Mike Dudek
Technical ($\geq 75\%$)
Passed by voice without opposition
- MMF held 11 ad hoc calls, and considered 10 presentations
 - <http://www.ieee802.org/3/bm/public/mmfadhoc/meetings/index.html>
 - CAUI-4 held 2 ad hoc calls, and considered 2 presentations
 - <http://www.ieee802.org/3/bm/public/cuadhoc/meetings/index.html>





Activities Since July 2014 Plenary (2 of 2)

- Liaisons & Communications
 - No Liaison Activity
- Sponsor Ballot of D3.2 was completed





Goals for this week's meeting

- Review Task Force Operation & Schedule
- Review Chief Editor's Report
- Liaisons
 - No Liaison Activity
- Consider Motions & Discussions
 - Adopt comment responses and if necessary, generate D3.3 for SB recirculation
 - Request conditional approval for Nescom / SASB review
- If changes occur to D3.3, an interim meeting will be held in the San Jose area in December. (Location TBA on Thursday this week)
- Wrap Up & Future Meeting Discussion





Meeting Info

We are meeting the following days/times/location

8:30am – 6pm Wednesday – Texas C Room, 4th Level

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/jul14/index.html> (July Index)





Thank you

