

# Opening Report

IEEE P802.3bq 40GBASE-T Task Force

David Chalupsky, Intel

San Antonio, Texas

November 3, 2014

# P802.3bq Organization

---

- David Chalupsky, Chair
- George Zimmerman, Secretary
- George Zimmerman, Chief Editor
  - With Chris DiMinico, Valerie Maguire, Curtis Donahue, Jim Graba
- Rx CMNR ad hoc
  - Pete Cibula, Chair
- PHY Proposal ad hoc (hibernating)
  - George Zimmerman, Chair

# Reflector and Web

---

- Currently 195 subscribers
- To subscribe to the 802.3bq reflector, send an email to:

[ListServ@ieee.org](mailto:ListServ@ieee.org)

with the following in the body of the message (do not include “<>”):

```
subscribe stds-802-3-NGBASET <yourfirstname> <yourlastname>  
end
```

- Send 802.3bq reflector messages to:  
[STDS-802-3-NGBASET @listserv.ieee.org](mailto:STDS-802-3-NGBASET@listserv.ieee.org)
- Task Force web page URL:  
<http://www.ieee802.org/3/bq/index.html>

# Task Force Private Area

---

- URL: <http://www.ieee802.org/3/bq/private/index.html>
- Username: 802.3bq
  - Password: \*\*\*\*\*
- Write it down...
- Note - The draft, and any other content, is posted for your review only, and neither the content nor access information should be copied or redistributed to others in violation of document copyrights.

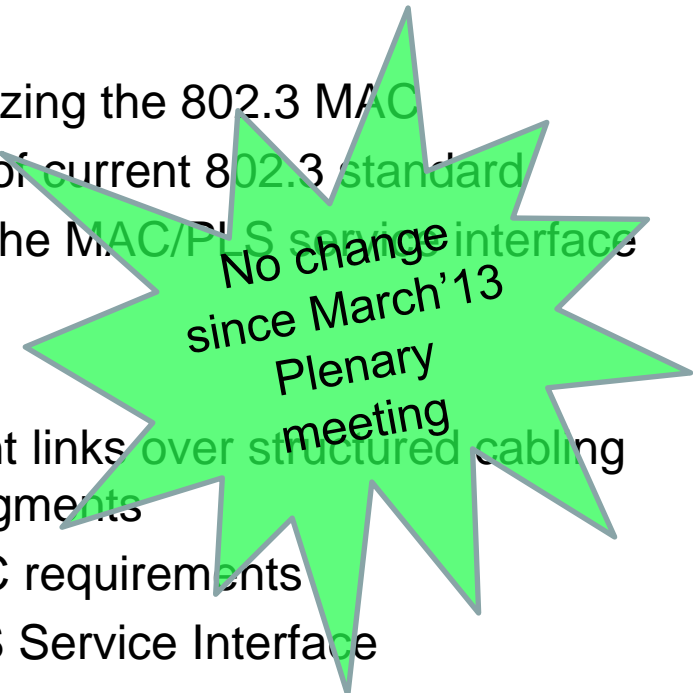
# IEEE P802.3bq 40GBASE-T Task Force Approved Project Documents

---

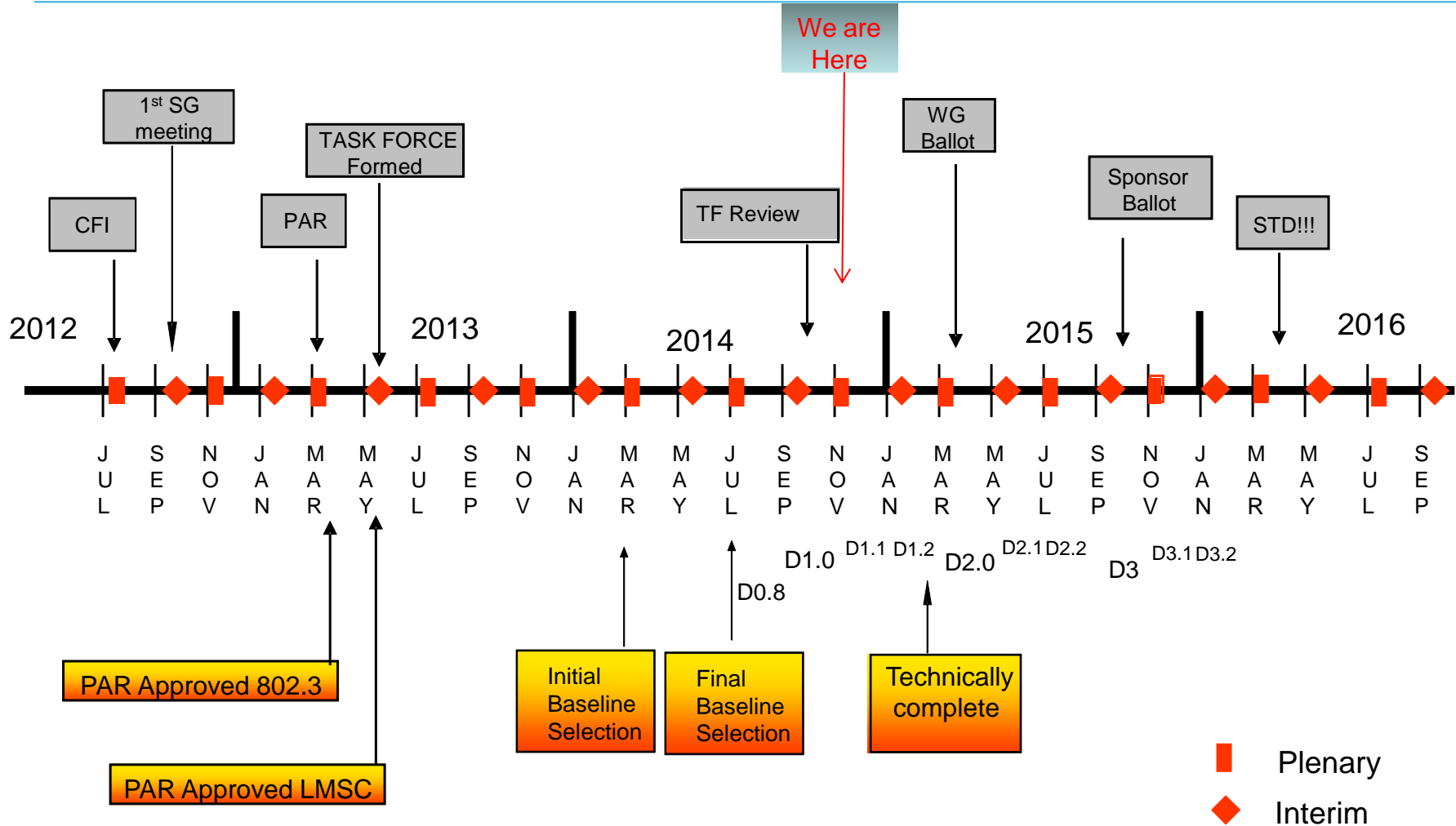
- PAR
  - <http://www.ieee802.org/3/bq/P802.3bq.pdf>
- 5 Criteria
  - <http://www.ieee802.org/3/bq/5Criteria.pdf>
- Objectives
  - <http://www.ieee802.org/3/bq/Objectives.pdf>

# IEEE P802.3bq 40GBASE-T Objectives

- Support full duplex operation only
- Preserve the 802.3 / Ethernet frame format utilizing the 802.3 MAC
- Preserve minimum and maximum Frame Size of current 802.3 standard
- Support a BER better than or equal to  $10^{-12}$  at the MAC/PLS service interface
- Support Auto-Negotiation (Clause 28)
- Support Energy Efficient Ethernet (Clause 78)
- Support local area networks using point-to-point links over structured cabling topologies, including directly connected link segments
- Do not preclude meeting FCC and CISPR EMC requirements
- Support a data rate of 40 Gb/s at the MAC/PLS Service Interface
- Define a link segment based upon copper media specified by ISO/IEC JTC1/SC25/WG3 and TIA TR42.7 meeting the following characteristics:
  - 4-pair, balanced twisted-pair copper cabling
  - up to 2 connectors
  - up to at least 30 m
- Define a single 40 Gb/s PHY supporting operation on the link segment



# P802.3bq Adopted Project Timeline



# Activities Since July'14 Plenary

---

- 9<sup>th</sup> P802.bq 40GBASE-T Task Force meeting held during 802.3 September 2014 interim meeting.
  - 1.5-day meeting, 28 attendees signed the book, 10 presentations
  - Passed multiple technical motions, including adopting the RJ45 as an MDI for 40GBASE-T
  - Resolved comments on D0.8
  - Chartered the development of D1.0
- D1.0 released October 1, 2014
  - Task Force Review initiated
  - 129 comments received
- ad hocs
  - Receiver Common Mode Noise Rejection ad hoc
  - 1 call held



# Plans for the Week

---

- 1.5-day meeting
  - Tuesday all day and Wednesday morning
  - Trying hard for a one-day meeting to set the pace for the future
- Resolve 129 comments on D1.0
- Charter draft of D1.1
- Respond to incoming liaisons from TIA and ISO

---

# Thank You!