

# Opening Report

IEEE P802.3bq 40GBASE-T Task Force

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Dallas, Texas

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# P802.3bq Organization

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- David Chalupsky, Chair
- Bill Woodruff, Vice Chair
- George Zimmerman, Secretary
- Channel Modeling ad hoc
  - Pete Cibula and Brad Booth, co-Chairs

# Reflector and Web

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- Currently 196 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

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- URL: <http://www.ieee802.org/3/bq/private/index.html>
- Username: xxxxxxxx
  - Password: xxxxxxxx
- 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.

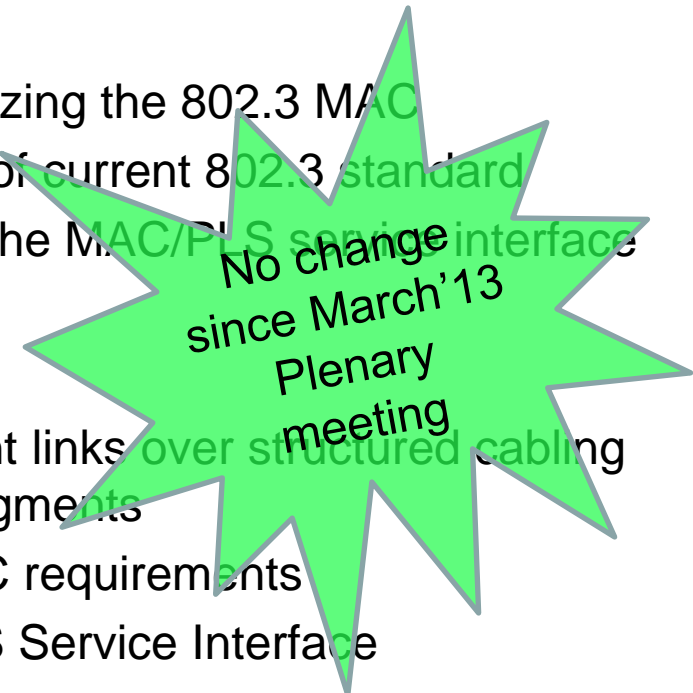
# IEEE P802.3bq 40GBASE-T Task Force Approved Project Documents

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- 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



# Activities Since July'13 Plenary

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- Third P802.bq 40GBASE-T Task Force meeting held during 802.3 September 2013 interim meeting.
  - One day meeting, 26 attendees signed the book
  - Heard 8 presentations
- Ongoing work from channel modeling ad hoc
  - To develop models for host PCB traces, magnetics, and cabling
  - Held multiple ad hoc conference calls
  - Meeting minutes and contributions are available at the 40GBASE-T website [channel modeling ad hoc area](http://www.ieee802.org/3/bq/public/channelmodeling/index.html)  
<http://www.ieee802.org/3/bq/public/channelmodeling/index.html>
  - A basic set of elements for an end-to-end channel is available at the P802.3bq task force [channel data](http://www.ieee802.org/3/bq/public/channeldata/index.html) area
    - <http://www.ieee802.org/3/bq/public/channeldata/index.html>
  - Thank you ad hoc contributors!

# Plans for the Week

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- Anticipate a one-day meeting, Tuesday
  - Wednesday morning if needed
- Hear 11 presentations
  - Ad hoc report
  - Channel data
  - Channel scaling techniques
  - Special: TIA guidelines for wireless access point cabling
    - Potentially of interest to POE and Wireless contributors



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# Thank You!