

# Opening Report

IEEE P802.3bq 40GBASE-T Task Force

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San Diego, California  
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# P802.3bq Organization

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- David Chalupsky, Chair
- George Zimmerman, Secretary
- Channel Modeling ad hoc
  - Pete Cibula, Chair
- PHY Proposal ad hoc
  - George Zimmerman, Chair
- George Zimmerman, Chief Editor

# Reflector and Web

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- Currently 197-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: 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.

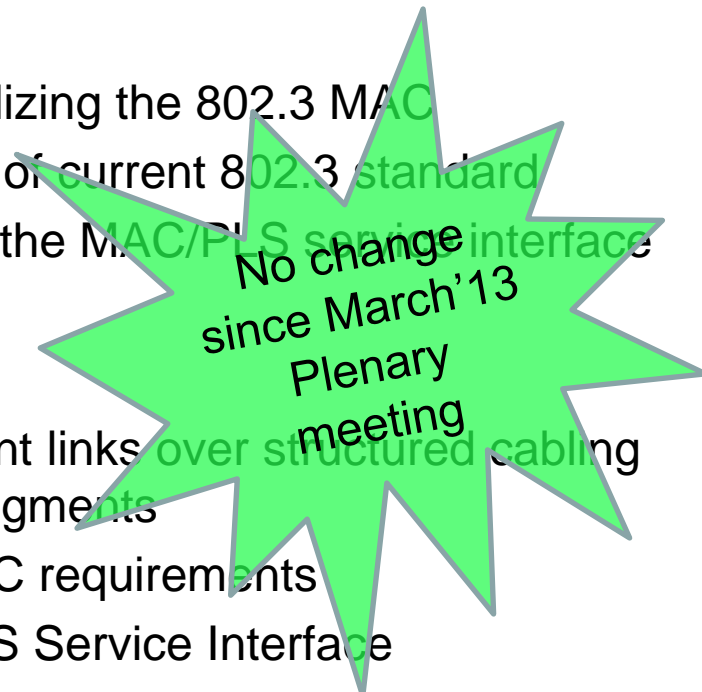
# IEEE P802.3bq 40GBASE-T Task Force Approved Project Documents

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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 March'14 Plenary

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- 7<sup>th</sup> P802.bq 40GBASE-T Task Force meeting held during 802.3 May 2014 interim meeting.
  - 1.5-day meeting, 28 attendees signed the book, 13 presentations
  - Passed 3 technical motions
    - adopt Lo\_3bq\_02\_0514.pdf to protect the bits unprotected by the LDPC.
    - Instruct the editor to prepare draft text based on option 3 in barrass\_3bq\_01\_0713.pdf
    - adopt a maximum delay constraint of 25600BT
- ad hocs
  - Channel Modeling
    - Held 2 calls, additional channel elements modeled
  - PHY Proposal
    - Held 2 calls
    - Progress made on proposals for Energy Efficient Ethernet and defining PHY parameters, resulting in proposal contributions to this meeting .

# Plans for the Week

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- 1.5-day meeting
  - Tuesday all day and Wednesday morning
- Hear 13 presentations
  - Ad hoc reports
  - Additional channel & noise data
  - Updates to baseline proposal
    - EEE
    - Power Backoff
    - PMA training
    - Tx PSD
  - Adopt project schedule



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# Thank You!