

Opening Report

IEEE P802.3bq 40GBASE-T Task Force

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Beijing, China
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P802.3bq Organization

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

Reflector and Web

- Currently ~~197~~ 205 subscribers
- To subscribe to the 802.3bq reflector, send an email to:

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

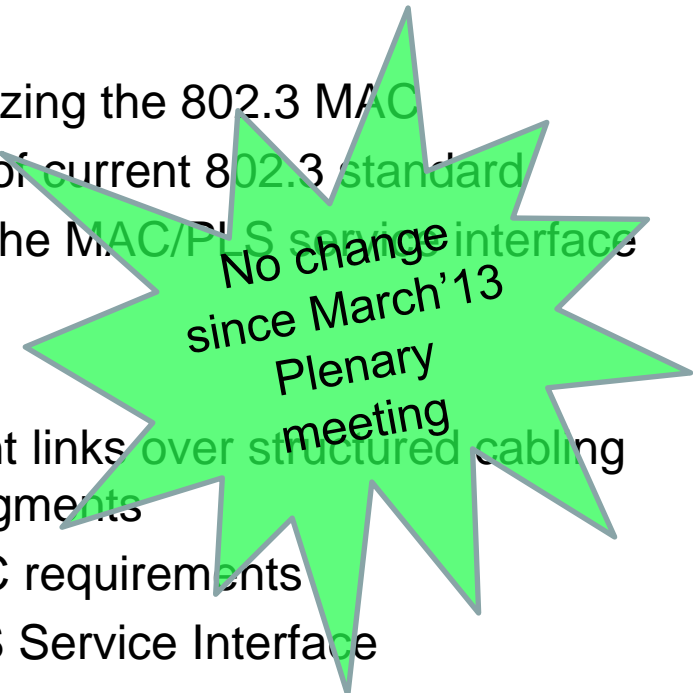
- URL: <http://www.ieee802.org/3/bq/private/index.html>
- Username: 802.3bq
 - Password: xxxxxx
- Write it down...
- Note - The draft, and any other content, is posted for your review only, and neither the content nor access information should be copied or redistributed to others in violation of document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



Activities Since November'13 Plenary

- 5th P802.bq 40GBASE-T Task Force meeting held during 802.3 January 2014 interim meeting.
 - One day meeting, 33 attendees signed the book
 - Heard 8 presentations
- ad hocs
 - Channel modeling
 - Held 4 calls, additional channel elements modeled, began work on system background noise measurements
 - PHY Proposal
 - Held 5 calls
 - Strawman baseline proposal, based upon 10GBASE-T scaled up
 - Multiple refinements proposed & discussed.

Plans for the Week

- Anticipate a one-day meeting, Wednesday
 - Thursday morning if needed
 - Room 5 Trader's Basement West
- Hear 10 presentations
 - Ad hoc reports
 - Additional channel & noise data
 - Update on PHY baseline proposal

Thank You!