Closing Report

IEEE P802.3bq 40GBASE-T Task Force

David Chalupsky, Intel

Geneva, Switzerland
July 18, 2013

P802.3bq Organization

- David Chalupsky, Chair

- Bill Woodruff, Vice Chair

- George Zimmerman, Secretary

- Channel Modeling ad hoc
  - Pete Cibula and Brad Booth, co-Chairs

"The most fun project in all of 802.3"

Reflector and Web

- Currently 178 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*

- Task Force web page URL:
    http://www.ieee802.org/3/bq/index.html

Task Force Private Area
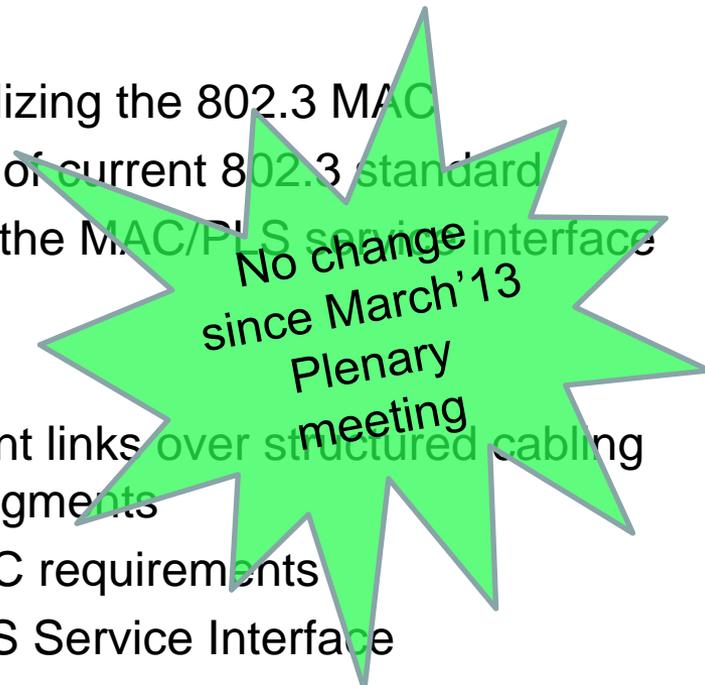
- URL: **http://www.ieee802.org/3/bq/private/index.html**
- Username: 802.3bq
  - Password: xxxxxxxxx

- Write it down…

- Note – A 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

No change since March'13 Plenary meeting

Activities this Week

- One-day meeting
  - 28 attendees signed the book
- Heard 12 presentations
  - Architecture considerations
  - Data center Cu cabling market survey report
  - Channel data
- Responded to ISO/IEC JTC1 SC25 WG3 liaison letter
- Generated liaison to TIA TR-42

Task Force Motion #3

- Move that the P802.3bq Chair submit the following motion to the IEEE 802.3 Working Group:
  - Move that IEEE 802.3 approve the text in IEEE_802d3_to_ISOIEC_SC25_WG3_0713.pdf, with editorial license granted to the Chair (or his appointed agent), as a liaison communication from the IEEE 802.3 Working Group to ISO/IEC JTC1 SC25 WG3.

  - Procedural>50%
  - M: Brad Booth
  - 2nd George Zimmerman
  - (all in the room) Yes: 24   No: 0   Abstain : 1
  - Motion passes

WG Motion

- Move that IEEE 802.3 approve the text in IEEE_802d3_to_ISOIEC_SC25_WG3_0713.pdf, with editorial license granted to the Chair (or his appointed agent), as a liaison communication from the IEEE 802.3 Working Group to ISO/IEC JTC1 SC25 WG3.

  - Technical >=75%
  - M: David Chalupsky on behalf of the task force
  - Yes: No: Abstain:
  - Motion

Task Force Motion #4

Move to approve the text in IEEE_802d3_to_TIATR42_0713.pdf, with editorial license granted to the Chair (or his appointed agent), as a liaison communication to TIA TR42.

- Procedural>50%
- M: Val Maguire
- 2nd George Zimmerman
- Yes: 16   No: 2   Abstain :   6
- Motion Passes

WG Motion

Move to approve the text in IEEE_802d3_to_TIATR42_0713.pdf, with editorial license granted to the Chair (or his appointed agent), as a liaison communication to TIA TR42.

- Technical>=75%
- M: David Chalupsky
- 2nd Brad Booth
- Yes: No: Abstain:
- Motion

Thank You!