

# Closing Report

## IEEE 802.3 P802.3bz 2.5G/5GBASE-T Task Force

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Waikoloa, HI  
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# IEEE P802.3bz 2.5G/5GBASE-T Task Force Project Information

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## Task Force Organization

David Chalupsky, Chair

Jon Lewis, Secretary

George Zimmerman, Chief Editor

- Editorial Team: Chris DiMinico, Jon Lewis, Mike Klempa, Valerie Maguire, Brett McClellan

Peter Jones, Chair, Architecture ad hoc

Chris DiMinico, Chair, Use Case ad hoc

German Feyh, Chair, Enterprise Noise and Use Case Analysis ad hoc (ENUCA)

## Task Force web and reflector information

Reflector information: <http://ieee802.org/3/NGBASET/reflector.html>

- Shares reflector with P802.3bq and 25GBASE-T study group

Home page: <http://ieee802.org/3/bz/index.html>

PAR - <http://www.ieee802.org/3/bz/P802.3bz.pdf>

CSD - [http://www.ieee802.org/3/bz/802d3\\_NGEABT\\_CSD\\_802.3\\_WG\\_approved\\_12-march-15.pdf](http://www.ieee802.org/3/bz/802d3_NGEABT_CSD_802.3_WG_approved_12-march-15.pdf)

Objectives - [http://www.ieee802.org/3/bz/ngeabt\\_objectives\\_802.3WG\\_approved\\_0315.pdf](http://www.ieee802.org/3/bz/ngeabt_objectives_802.3WG_approved_0315.pdf)

Private area: <http://ieee802.org/3/bz/private/index.html>

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# Activities This Week

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- 2.5-day meeting with interleaved with P802.3bq / 25GBASE-T SG joint meeting
  - ~47 attendees.
- Heard 9 presentations
- Resolved 113 comments on D0.1
  - Many in common with P802.3bq
- Authorized generation of D1.0 & begin Task Force Review
- Discussed project schedule
  - See optimistic and conservative options that intersect completion with September'16 or December'16 Revcom meetings, respectively
  - Elected to defer approving a schedule until September meeting and assessing status of D1.0 TF review

# P802.3bz Motion #9

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**Instruct the editor to create D1.0 from D0.1 and comment resolution p802p3bz\_d0p1\_final\_commentID.pdf adopted at this meeting and initiate task force review.**

**M: George Zimmerman**

**S: Jon Lewis**

**(Technical > 75%)**

**Y: 42      N: 0      A: 0**

**MOTION PASSES at 10:31AM**

Questions?

Thank you!

# Next Generation Enterprise Access BASE-T PHY 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 Auto-Negotiation (Clause 28)
- Support optional Energy Efficient Ethernet (Clause 78)
- Support local area networks using point-to-point links over structured cabling topologies
- Do not preclude meeting FCC and CISPR EMC requirements
- Support PoE (Clause 33)
  - including amendments made by 802.3bt “DTE Power via MDI over 4-Pair Task Force”
- Support MAC data rates of 2.5 Gb/s and 5 Gb/s
- Support a BER better than or equal to  $10^{-12}$  at the MAC/PLS service interface (or the frame loss ratio equivalent)
- Select copper media from ISO/IEC 11801:2002, with any appropriate augmentation to be developed through work of 802.3 in conjunction with SC25/WG3 and TIA TR42
- Define a 2.5 Gb/s PHY for operation over
  - Up to at least 100m on four-pair Class D (Cat5e) balanced copper cabling on defined use cases and deployment configurations
- Define a 5 Gb/s PHY for operation over
  - Up to at least 100m on Class E (Cat6) balanced copper cabling on defined use cases and deployment configurations
  - Up to 100m on Class D (Cat5e) balanced copper cabling on defined use cases and deployment configurations