

Closing Report

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

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Dallas, Texas
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IEEE P802.3bz 2.5G/5GBASE-T Task Force Project Information

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

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

Objectives - 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

- 2.5-day meeting with interleaved with P802.3bq
 - ~41 attendees.
- Resolved 158 comments on D1.1
 - Many in common with P802.3bq
 - Eradicated all TBDs
- Authorized generation of D1.2 & continue Task Force Review
- Updated project schedule

Some P802.3bz Motions

Motion:

- **Instruct the editor to create D1.2 for Task Force review from D1.1 and closed comments.**
- **M: Jon Lewis S: Amrik Bains (Technical $\geq 75\%$)**
- **Y: 31 N: 0 A:0 - motion passes**

Motion:

Adopt IEEE P802.3bz proposed schedule as shown in chalupsky_3bz_01_1115.pdf, noting that completion of referenced cabling standards is a risk item to this schedule

M G. Zimmerman S M. Shariff - (Procedural $>50\%$)

Y 32 N 0 A0 - motion passes

IEEE P802.3bz Adopted Schedule

2015	January		1st SG meeting
	March		2nd SG meeting
2015	May	D0.1	1st TF mtg, preliminary draft
	July	D1.0	start TF review
	September	D1.1	
	November	D1.2	technically complete – pre-submit for WG ballot. Must be available 10 days prior to 802.3 mtg
2016	January	D2.0	30-day IWGB: 1/23-2/21.
	March	D2.1	conditional SB for May
	April	D3.0	If contingent interim not needed... START SPONSOR BALLOT
	May	D3.1	
	July	D3.2	
	August		Aug 5th final recirc start for deadline Sept Revcom
	September	D3.2	Approved

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