IEEE 802.3az
Energy Efficient Ethernet

Opening Plenary Report

Orlando, FL
March 15, 2010

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Reflector and Web

- To subscribe to the EEE TF reflector, send your request to: Listserv@ieee.org

  with the following in the body of the message (do not include “<>”):
  subscribe stds-802-3-eee <yourfirstname> <yourlastname>end

- Send reflector messages to: stds-802-3-eee@listserv.ieee.org

- For complete instructions on reflector usage, subscription, and unsubscription: http://www.ieee802.org/3/az/reflector.html

- Task Force web page URL: http://www.ieee802.org/3/az/
Reflector and Web

- Our latest draft is D2.3

- Task Force *private* web page URL:


*Login: 802.3az
Password: xxxxxxxx*
Overview of IEEE 802.3 Standards Process (3/5)

Working Group Ballot Phase

D2.(n+1)

- 802.3 WG BALLOT

TF Resolves Comments

Substantive Changes

- Yes

- In Scope New Negatives

- No

- ≥ 75%

Check Point

- Yes

- No

Notes: At “Check Point”, either the activity is ended, or there may be various options that would allow reconsideration of the approval. See 802.3 Operating Rules 7.1.4 and listed references for complete description.

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- 3rd Working Group ballot recirculation

- Ballot open: Thursday, 18th, February 2010

- Ballot close: Friday, 5th March 2010 11:59PM AOE
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Ballot Results on D2.3

- 79 comments received
  - 30 E
  - 3 ER
  - 35 T
  - 11 TR

Note: 3 “TR” comments received with “Approve w/comment”
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Comment Results on D2.3
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- Interim meeting
- January 25-29, New Orleans, LA
  - Convention Center Marriott Hotel
  - Hosted by Applied Micro
    - Thanks!
    - Attendance: ~20 people
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- Ballot Results on D2.2

- 112 comments received
- E 13
- ER 7
- T 47
- TR 45
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- Presentations/Contributions
  - Moving IEEE P802.3az to Sponsor ballot and RevCom
    Wael Diab, Broadcom and David Law, 3Com

  - 10GBASE-T ad hoc report - Fast retrain and link monitoring
    Gavin Parnaby, Solarflare
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- Presentations/Contributions
  - Energy Efficient Ethernet 10GBASE-T LPI During Training
  - Energy Efficient Ethernet 1000BASE-T LPI Request During Retraining
  - 10GBASE-T TXNORMAL to SEND_SLEEP Transition

- Mike Grimwood, Broadcom
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- Motions from the Interim

  Motion #02 -
  Accept comment resolutions from D2.2 as recorded in the comment database.
  Direct the IEEE P802.3az editorial team to generate draft 2.3, based on Draft 2.2 and the resolution of comments against Draft 2.2.
  Direct the Working Group chair to conduct an IEEE 802.3 WG recirculation ballot for P802.3az/D2.3
  Moved by: H. Barrass
  Second by: M. Chadha
  All Y:17 N:1 A:0  Technical; ≥ 75% required to pass
  Motion passed
Goals for this Meeting

- Process comments against D2.3
- Direct editorial team to produce next draft
- Try to progress to Sponsor Ballot
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Comment trend
802.3az timeline

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Objectives

Define a mechanism to reduce power consumption during periods of low link utilization for the following PHYs
- 100BASE-TX (Full Duplex)
- 1000BASE-T (Full Duplex)
- 10GBASE-T
- 1000BASE-KX
- 10GBASE-KR
- 10GBASE-KX4

- Define a protocol to coordinate transitions to or from a lower level of power consumption
- The link status should not change as a result of the transition
- No frames in transit shall be dropped or corrupted during the transition to and from the lower level of power consumption
- The transition time to and from the lower level of power consumption should be transparent to upper layer protocols and applications
Objectives

• Define a 10 megabit PHY with a reduced transmit amplitude requirement such that it shall be fully interoperable with legacy 10BASE-T PHYs over 100 m of Class D (Category 5) or better cabling to enable reduced power implementations.

• Any new twisted-pair and/or backplane PHY for EEE shall include legacy compatible auto negotiation
Thank You!