IEEE 802.3az
Energy Efficient Ethernet

Closing Plenary Report

Dallas, TX
November 13, 2008

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Reflector and Web

- To subscribe to the EEE TF reflector, send your request to:
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- Task Force web page URL:
  \[\text{http://www.ieee802.org/3/az/}\]
Reflector and Web

- Our latest draft is D1.0

- Task Force private web page URL:


  Login: 802.3az
  Password: xxxxxxxx
Overview of IEEE 802.3 Standards Process (2/5)
Task Force Meeting Phase

- Approved PAR
  - Task Force Meetings
    - Objectives
      - Proposals Selected
        - Yes
        - No
          - No
          - Yes
            - TF Review Done
              - D1.0
              - D1.(n+1)
              - No
              - Yes
                - To 802.3 WG Ballot
                  - No
                  - Yes
                    - D2.0
                      - A

- PAR
  - No
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 (added in July)
- 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
Goals for this Meeting

- Continue hearing proposals
  - Fill in TBDs and holes
  - Review architecture

- Resolve what to do with TP-PMD

- Review draft D1.0 and proposed changes

- Process comments on D1.0

- Direct editors to produce D1.1 for Task Force review
802.3az Task Force Report

- Comments received on D1.0
  - 334 comments received
    - 175 technical (T + TR)
    - 159 editorial (E + ER)
- All technical comments resolved
- All editorial comments reviewed – editors given editorial license to respond
802.3az Task Force Report - Motions

Motion #2

The 802.3az Task Force will not pull TP-PMD into the standard.

Moved by: H. Barrass
Second by: G. Parnaby

Yes:20
No:0
Abstain:5

Technical motion; ≥ 75% required to pass
802.3az Task Force Report - Motions

Motion #3

The P802.3az Task Force authorizes the editors to reconcile terminology related to Energy Efficient Ethernet across different PHYs

Moved by: B. Dietz
Second by: B. Booth

Yes:23
No:0
Abstain:1

Technical motion; ≥ 75% required to pass
802.3az Task Force Report - Motions

- Motion #4

The P802.3az Task Force grant editorial license to the P802.3az editors to respond to unresolved editorial comments to D1.0 as they see fit

Moved by: B. Booth
Second by: M. Chadha

Yes: 23
No: 0
Abstain: 1

Technical motion; ≥ 75% required to pass
802.3az Task Force Report - Motions

Motion #5

The P802.3az Task Force adopt option #2 in law_01_1108.pdf as the RX TX LPI architecture for Energy Efficient Ethernet

Moved by: B. Dietz
Second by: H. Barrass

Yes: 18
No: 0
Abstain: 0

Technical motion; ≥ 75% required to pass
Motion #6

Move that draft 1.0 plus the resolution of comments as recorded in 8023azd1p0.pdf and motions on draft 1.0 be used as the basis for the generation of draft 1.1

Moved by: W. Diab
Second by: D. Koenen

Yes: 18
No: 0
Abstain: 1

Technical motion; ≥ 75% required to pass
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<th>Date</th>
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<td>Dec 15th 2008</td>
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<td>Proposed responses posted:</td>
<td>Jan 9th 2009</td>
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<td>Comment resolution:</td>
<td>Jan 13(^{th}) - 15(^{th}) 2009</td>
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802.3az timeline – adopted 2008-03-20

Legend
- IEEE 802 Plenary
- IEEE 802 Interim
- IEEE-SA Standards Board
802.3az Task Force Report – Liaison letter

Motion

Move the 802.3 Working Group approve the draft liaison response letter to TR-42 granting the Chair editorial license.

Moved by: M. Bennett
Second by: R, Grow

passed by voice without opposition

Technical motion; ≥ 75% required to pass
Thank You!