

IEEE 802.3az

Energy Efficient Ethernet

Closing Plenary Report

Dallas, TX
November 13, 2008

Mike Bennett
mjbennett@ieee.org

IEEE 802.3az EEE Contacts

- Task Force Chair

- Mike Bennett (mjbennett@ieee.org)

- Web Master

- Bruce Nordman (bnordman@lbl.gov)

- Editor-in-Chief

- Sanjay Kasturia (kasturia@teranetics.com)

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 D1.0
- Task Force *private* web page URL:

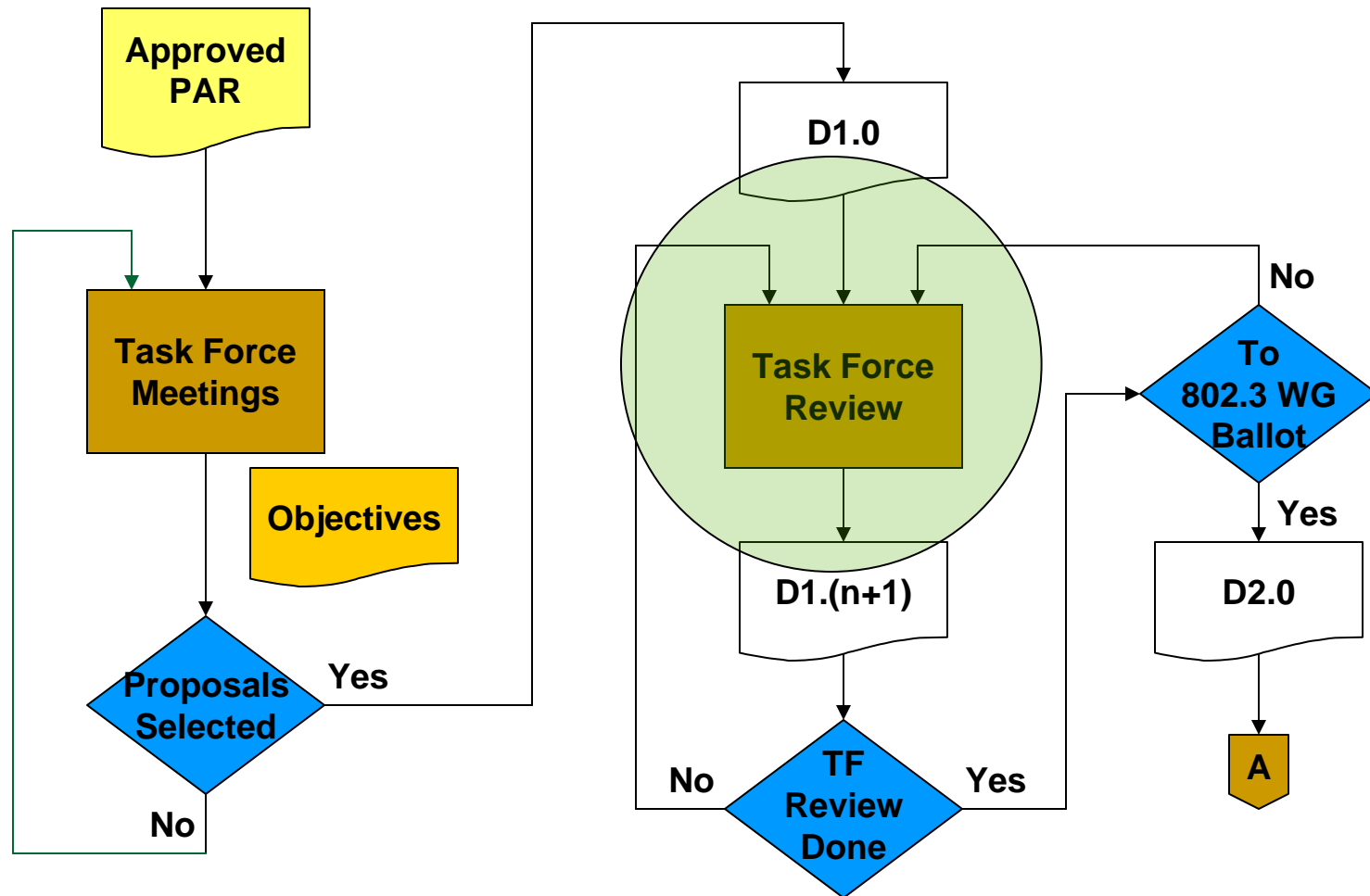
<http://www.ieee802.org/3/az/private/index.html>

Login: 802.3az

Password: xxxxxxxx

Overview of IEEE 802.3 Standards Process (2/5)

Task Force Meeting Phase



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; $\geq 75\%$ 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; $\geq 75\%$ 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; $\geq 75\%$ 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; $\geq 75\%$ required to pass

802.3az Task Force Report - Motions

■ 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

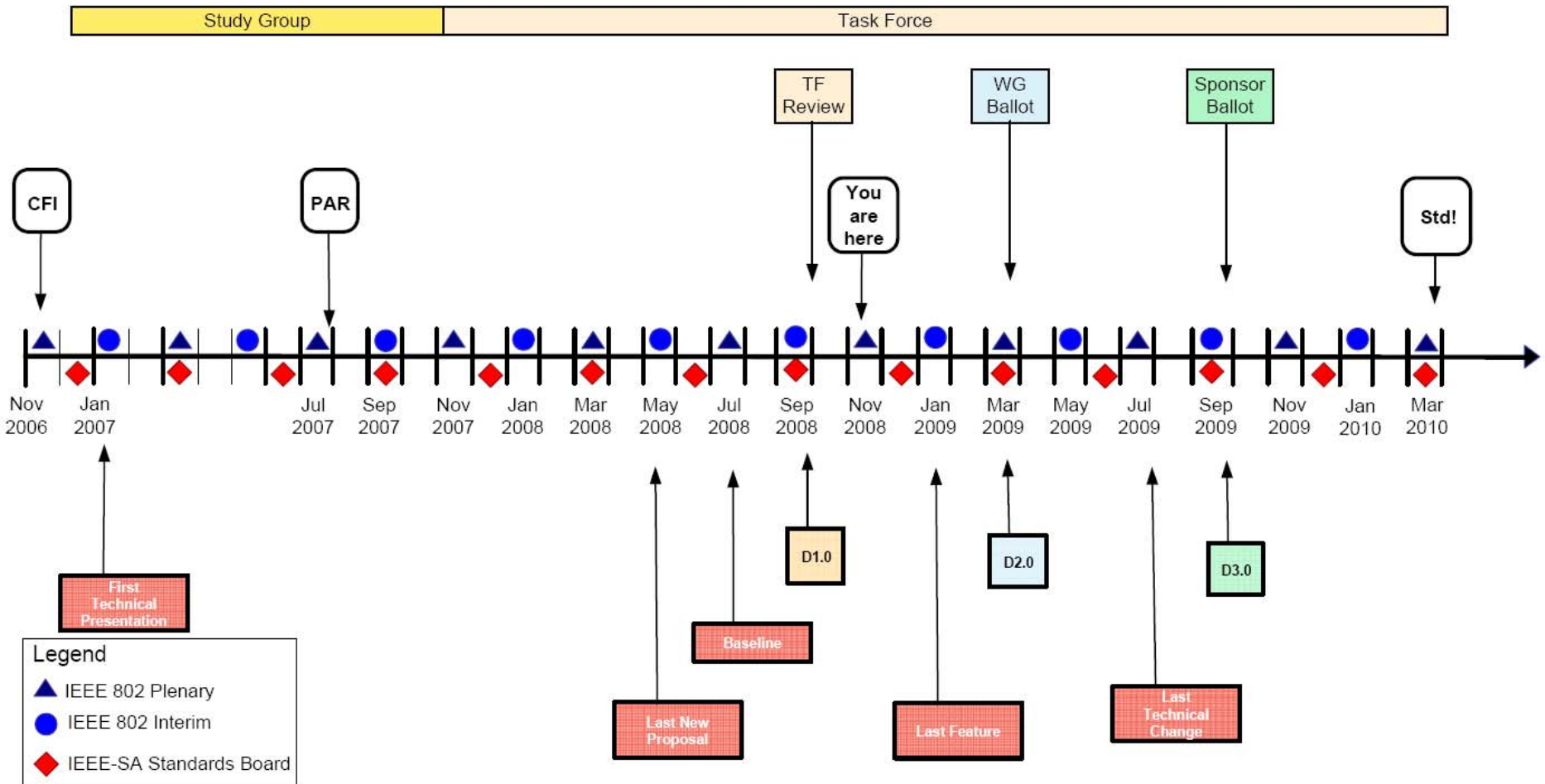
Abstain: 1

Technical motion; $\geq 75\%$ required to pass

802.3az Task Force Report – D1.1 review

Comment cycle opens:	Dec 15th 2008
Comment deadline:	Jan 3rd 2009
Proposed responses posted:	Jan 9th 2009
Comment resolution:	Jan 13 th - 15 th 2009

802.3az timeline – adopted 2008-03-20



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; $\geq 75\%$ required to pass

Thank You!