

IEEE 802.3az Energy Efficient Ethernet

Closing Plenary Report

San Diego, CA July 15, 2010

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Reflector and Web

To subscribe to the EEE TF reflector, send your request to: <u>ListServ@ieee.org</u>

with the following in the body of the message (do not include "<>"):

**subscribe stds-802-3-eee <yourfirstname> <yourlastname>

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- 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

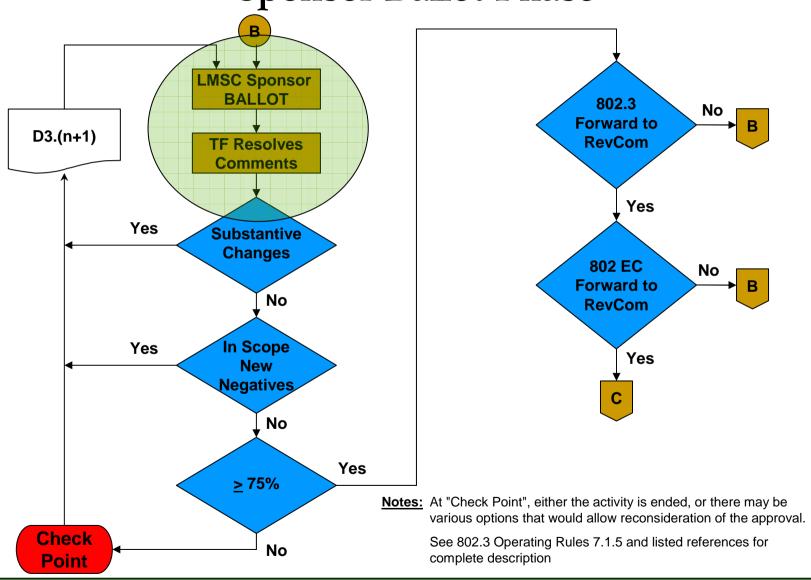
■ Task Force *private* web page URL:

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

Login: 802.3az

Password: xxxxxxxxx

Overview of IEEE 802.3 Standards Process (4/5) Sponsor Ballot Phase



Progress for this Meeting

- Processed 109 comments against D3.1
 - □ 2 late comments
 - 4 from the floor
- Direct editorial team to produce next draft
 - ☐ Editors produced preliminary D3.2 last night for review
 - ☐ Captured feedback in kasturia_01_710.pdf
 - □ Directed editors to generate D3.2 for second Sponsor Ballot recirculation

Progress for this Meeting Motions

#2

Editors are instructed to prepare text with the changes to clauses 45, 46, 48 and 55 for review by the task force on Wednesday morning with:

- 1) A new signal link unavailable> in addition to IDLE and LF as defined in brown_01_0710.pdf
- 2) The optional detection of <link unavailable> as proposed in brown_01_0710.pdf
- 3) The optional deference
- 4) Use the name <Link Interruption> instead of link unavailable>
- 5) Also add the definition in Table 48-4

Moved by: W. Diab

Second by: I. Ganga

Yes:25 No:0 Abstain:2

Technical motion; ≥75% motion passes

Progress for this Meeting Motions #3

Adopt the changes in kasturia_01_0710.pdf to be included in P802.3az D3.2

Moved by: M. Brown

Second by: J. Chou

Yes:19 No:0 Abstain:2 Technical motion; ≥75% motion passes

Progress for this Meeting Motions #4

Accept comment resolutions from D3.1 as recorded in the comment database and changes in kasturia_01_0710.pdf

Direct the IEEE P802.3az editorial team to generate draft 3.2, based on Draft 3.1 and the resolution of comments against Draft 3.1 as recorded in the database and motion #3. Request the Working Group chair to initiate an IEEE SA sponsor ballot recirculation for P802.3az/D3.2

Moved by: H. Barrass Second by: M. Brown

Yes:17 No:0 Abstain:1 Technical motion; ≥75% required to pass

Progress for this Meeting

Motions

#5

Request the 802.3 Working Group grant conditional approval for P802.3az to be submitted to RevCom

Moved by: G. Parnaby

Second by: H. Barrass

Yes:20

No:0

Abstain:1

Technical motion; ≥75% required to pass

■ Ballot Results on D3.0 – 373 comments

Ballot Open Date: 15-Apr-2010 Ballot Close Date: 15-May-2010

RESPONSE RATE

This ballot has met the 75% returned ballot requirement.

127 eligible people in this ballot group.

88 affirmative votes

9 negative votes with comments

O negative votes without comments

6 abstention votes

103 votes received = 81% returned

5% abstention

APPROVAL RATE

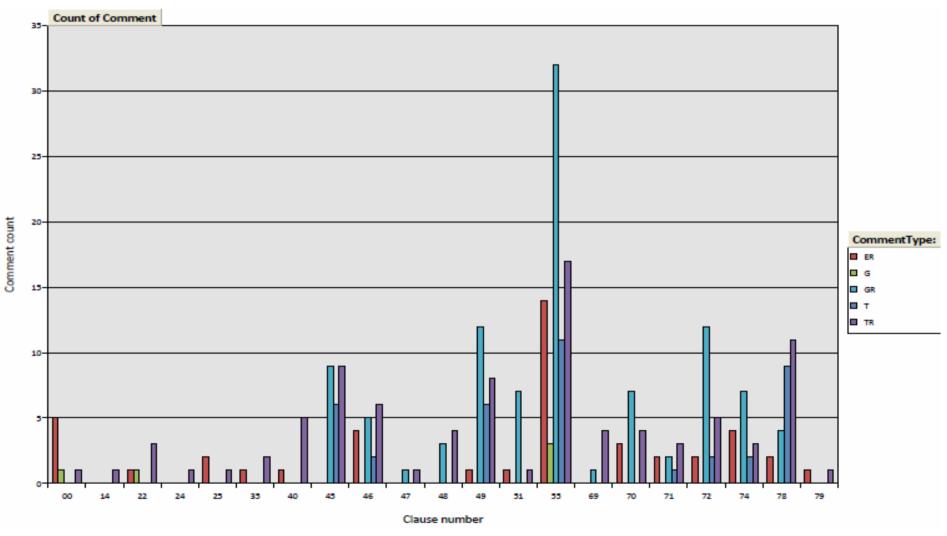
The 75% affirmation requirement is being met.

88 affirmative votes

9 negative votes with comments

97 votes = 90% affirmative

■ Comment Results on D3.0 – all comments



Ballot Results on D3.1

Ballot Open Date: 18-Jun-2010 Ballot Close Date: 03-Jul-2010

RESPONSE RATE

This ballot has met the 75% returned ballot requirement.

127 eligible people in this ballot group.

94 affirmative votes

6 negative votes with comments

0 negative votes without comments

6 abstention votes

106 votes received = 83% returned

5% abstention

APPROVAL RATE

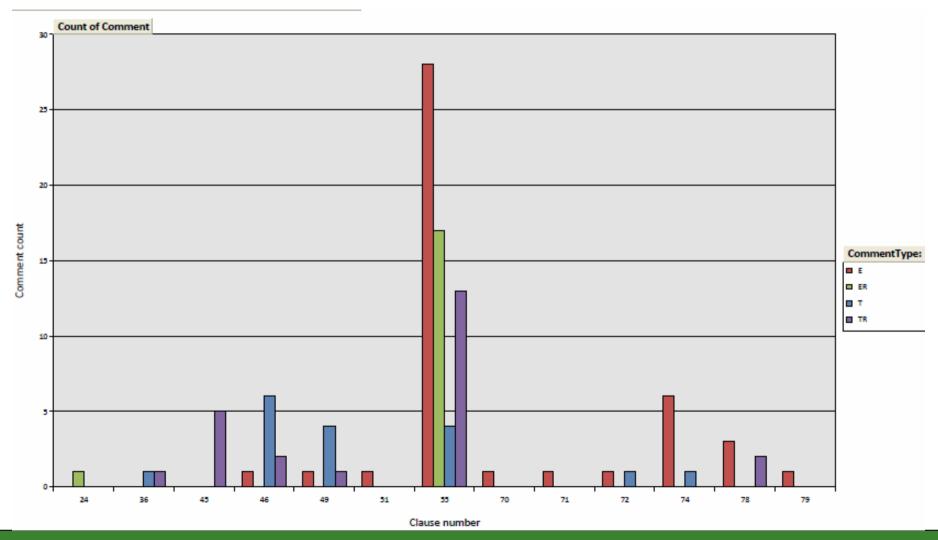
The 75% affirmation requirement is being met.

94 affirmative votes

6 negative votes with comments

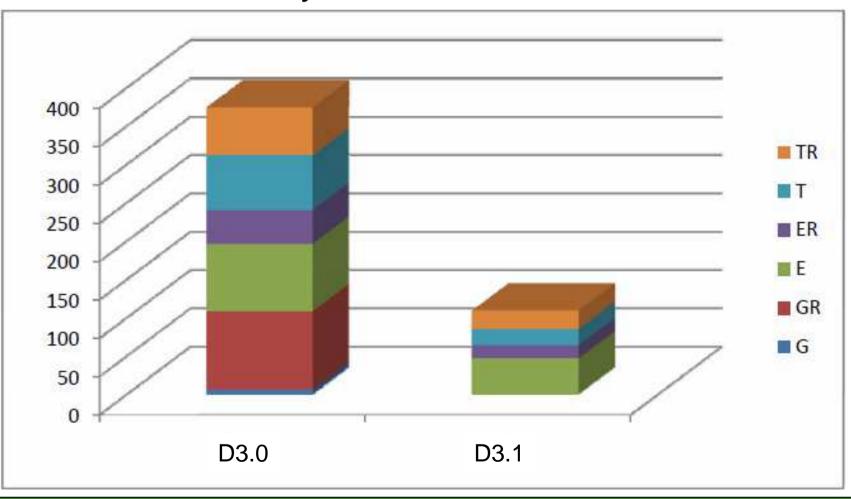
100 votes = 94% affirmative

■ Comment Results on D3.1 – all comments (103)

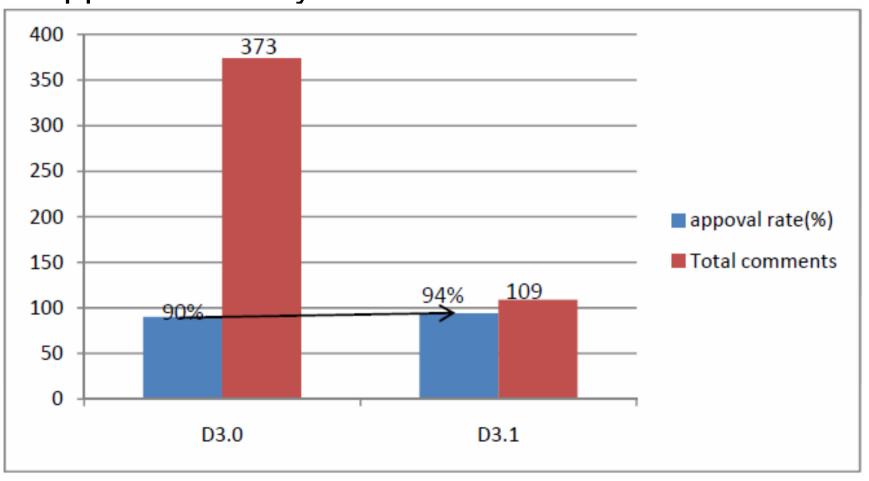


- As of 12:46 PM today
 - No unresolved comments!

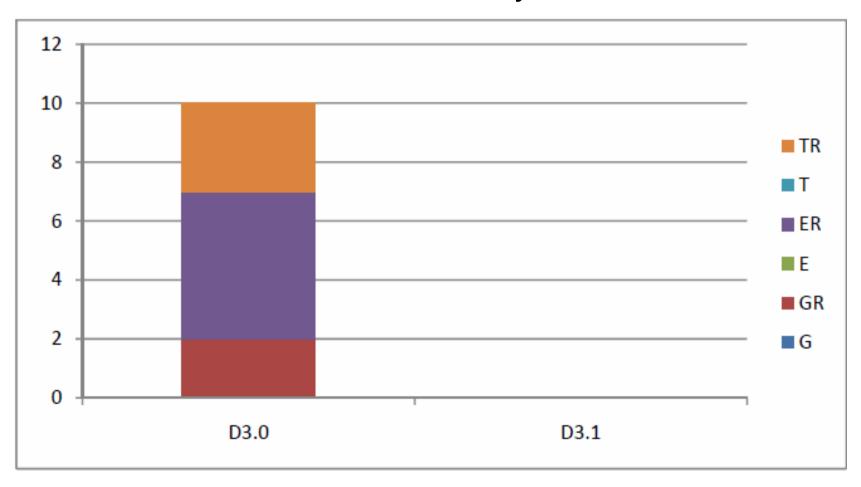
Comment History



Approval History



Unresolved Comment History



Motion

Grant conditional approval for IEEE P802.3az to be submitted to RevCom upon successful completion of the LMSC sponsor ballot, with the understanding that approval from the IEEE 802 EC will also be required.

Moved by: M. Bennett; Seconded by: W. Diab

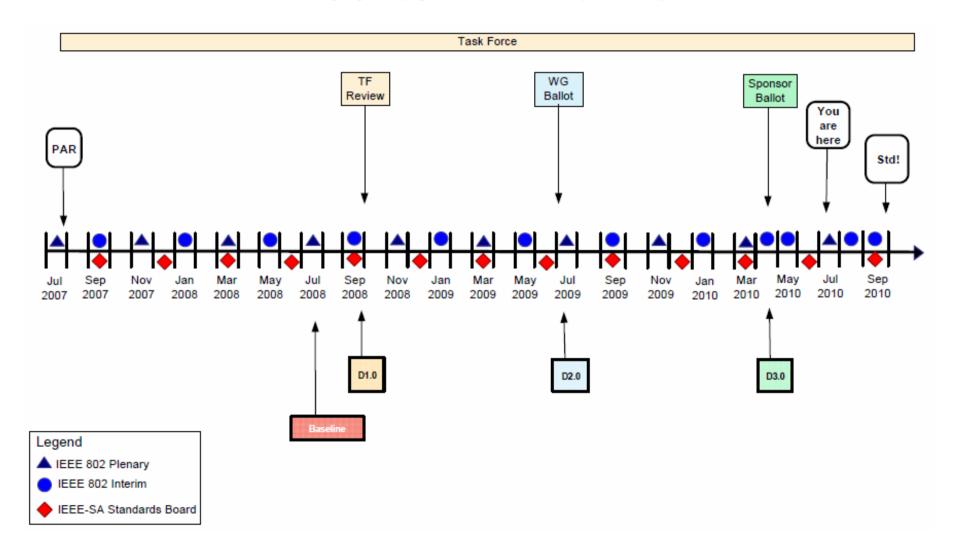
Yes:47

No:0

Abstain:0

Technical motion; ≥75% required to pass

P802.3az timeline



Meeting the Sept. Deadline and Future Meetings

- August interim, August 12th LBNL, Berkeley, CA
 - Goals
 - Process comments against D3.2
 - Generate D3.3
 - No teleconference
- Submit to RevCom
 - request 802.3 WG approval today
- September interim, Sept. 21-22, Portland, OR
 - Goals
 - Process comments against D3.3
 - Generate D3.4
 - Submit results of recirculation to RevCom

Correction

Meeting the Sept. Deadline and Future Meeting

- August interim, August 12th LBNL, Berkeley, CA
 - Goals
 - Process comments against D3.2
 - Generate D3.3
 - No teleconference
- Submit to RevCom
 - ☐ request 802.3 WG approval today
- If a third recirculation is necessary, see
- http://www.ieee802.org/3/az/public/jan10/diab_law_01_0110.pdf#Page=5 for guidance on schedule

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!