



IEEE 802.3az Energy Efficient Ethernet

Opening Plenary Report

San Diego, CA
July 12, 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:

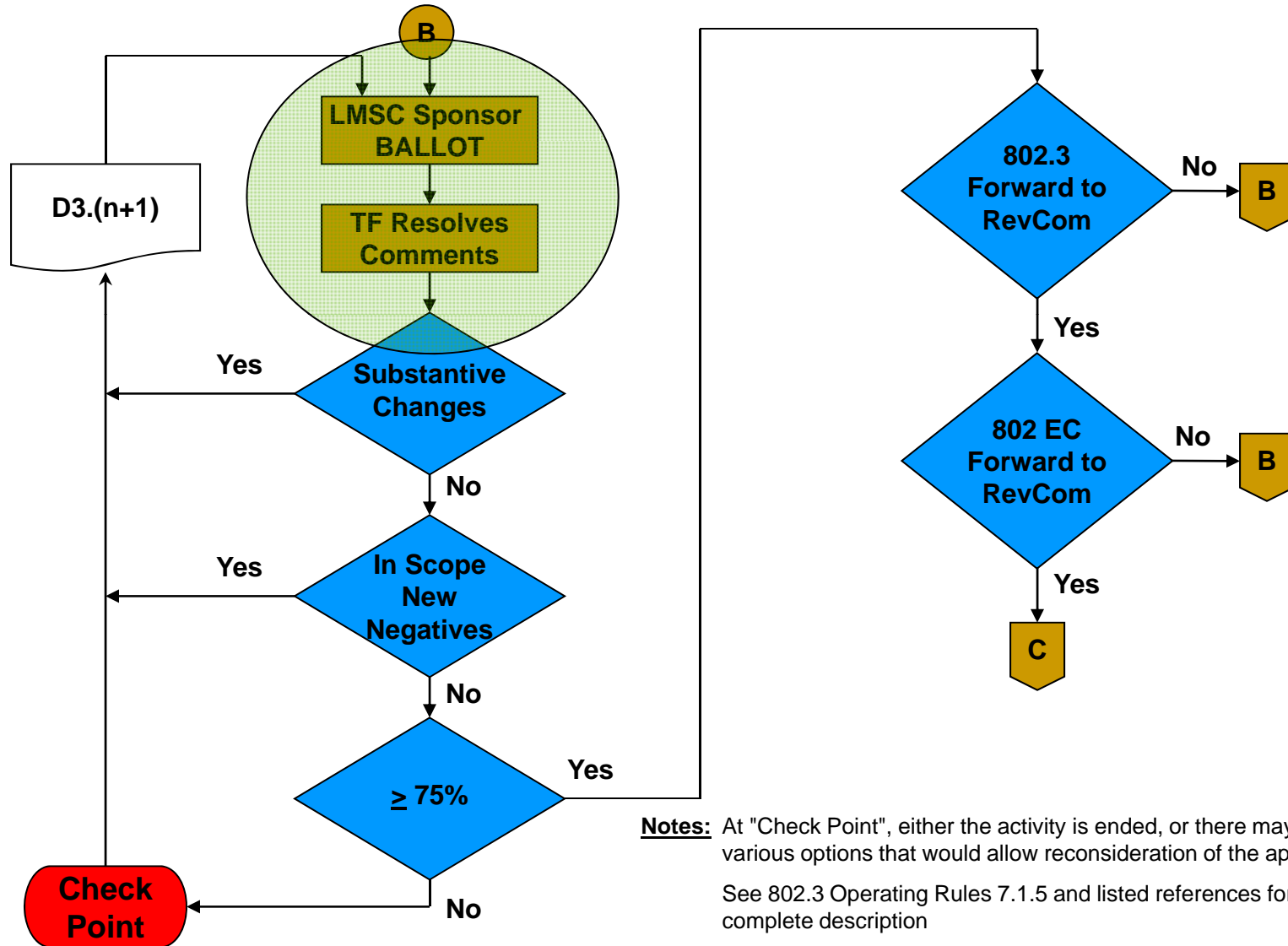
<http://www.ieee802.org/3/az/private/index.html>

Login: 802.3az

Password: xxxxxxxx

Overview of IEEE 802.3 Standards Process (4/5)

Sponsor Ballot Phase



802.3az Task Force Report

- Interim meeting on April 8, 2010
 - Hosted by LBNL
 - 1 day with teleconferencing
 - Thanks Hugh for hosting the call
 - 7 people attended on site
 - 6 people attended via teleconference
 - Resolved one comment
 - Requested the WG Chair to initiate Sponsor Ballot
 - Received conditional approval in March

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■ Motions from the Interim

Motion #02 - Motion #2 M. Hugh Barrass S: W. Diab

Accept comment resolution from D2.4 as recorded in the comment database. Direct the IEEE P802.3az editorial team to generate draft 3.0, based on Draft 2.4, the resolution of the comment against Draft 2.4 and update Table 79-1-IEEE 802.3 Organizationally Specific TLVs with subtype 5 for use in 802.3az.

Request the Working Group chair to initiate Sponsor Ballot on Draft 3.0

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■ 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

0 negative votes without comments

6 abstention votes

103 votes received = 81% returned

5% abstention

APPROVAL RATE

The 75% affirmation requirement is being met.

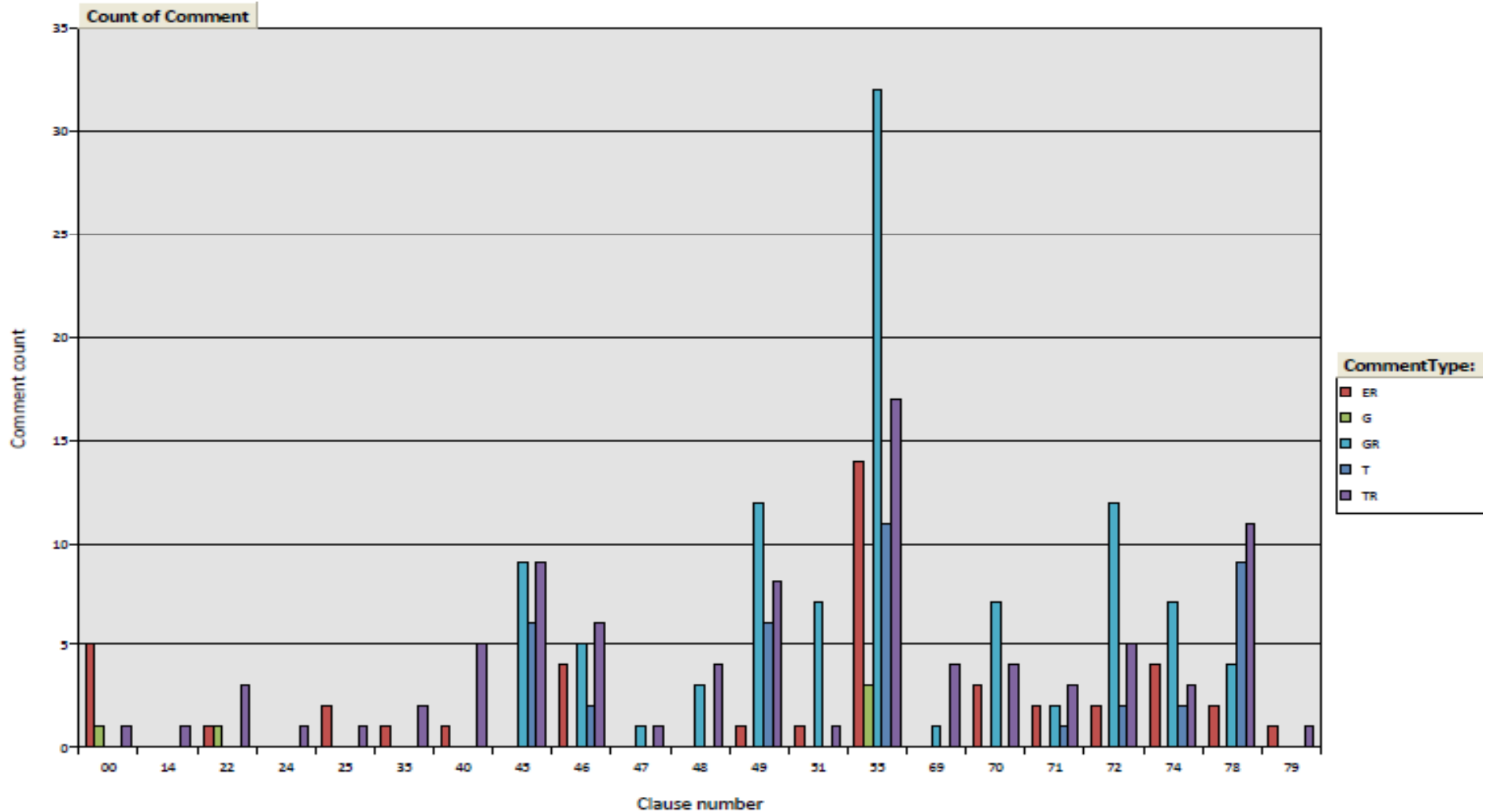
88 affirmative votes

9 negative votes with comments

97 votes = 90% affirmative

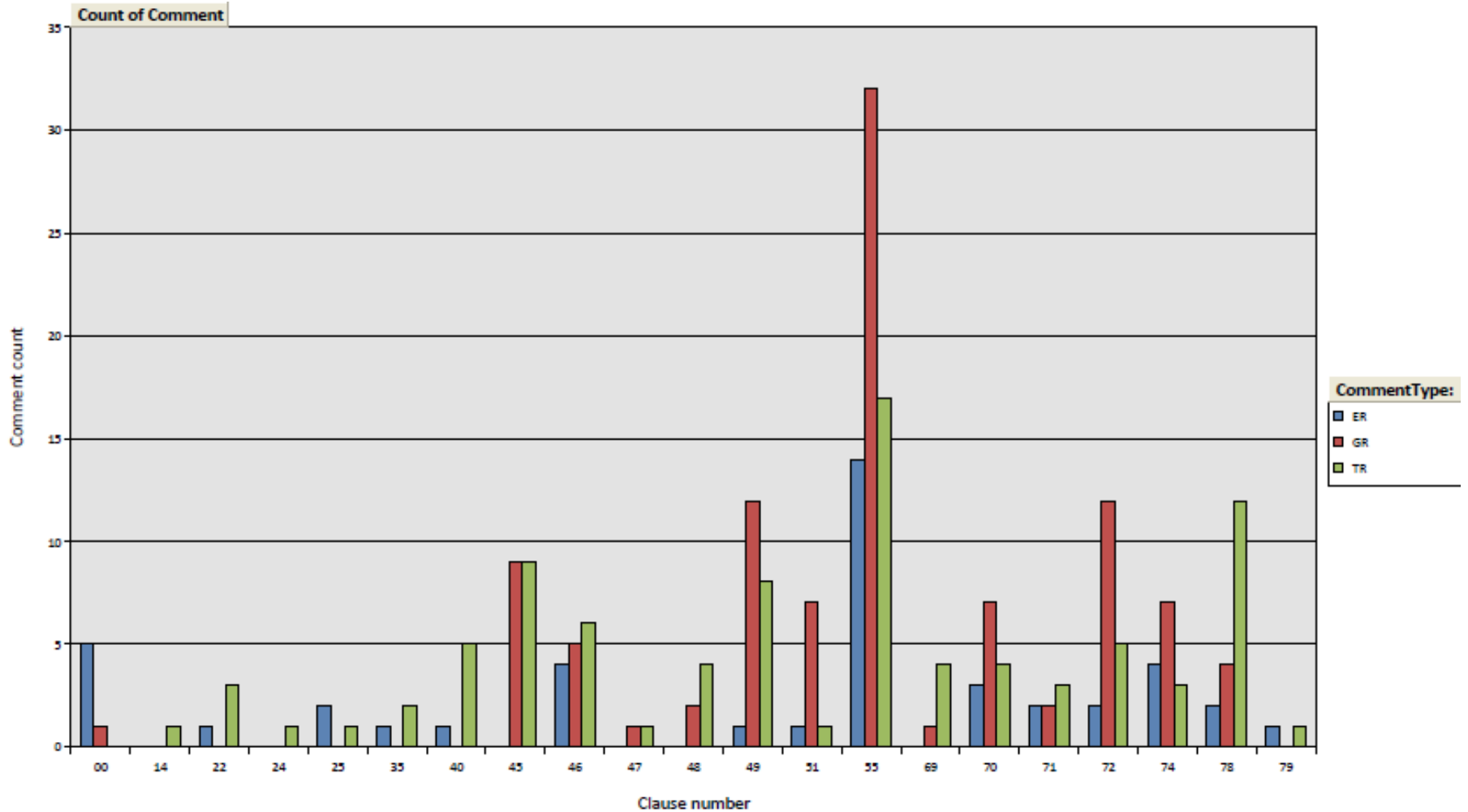
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■ Comment Results on D3.0 – all comments



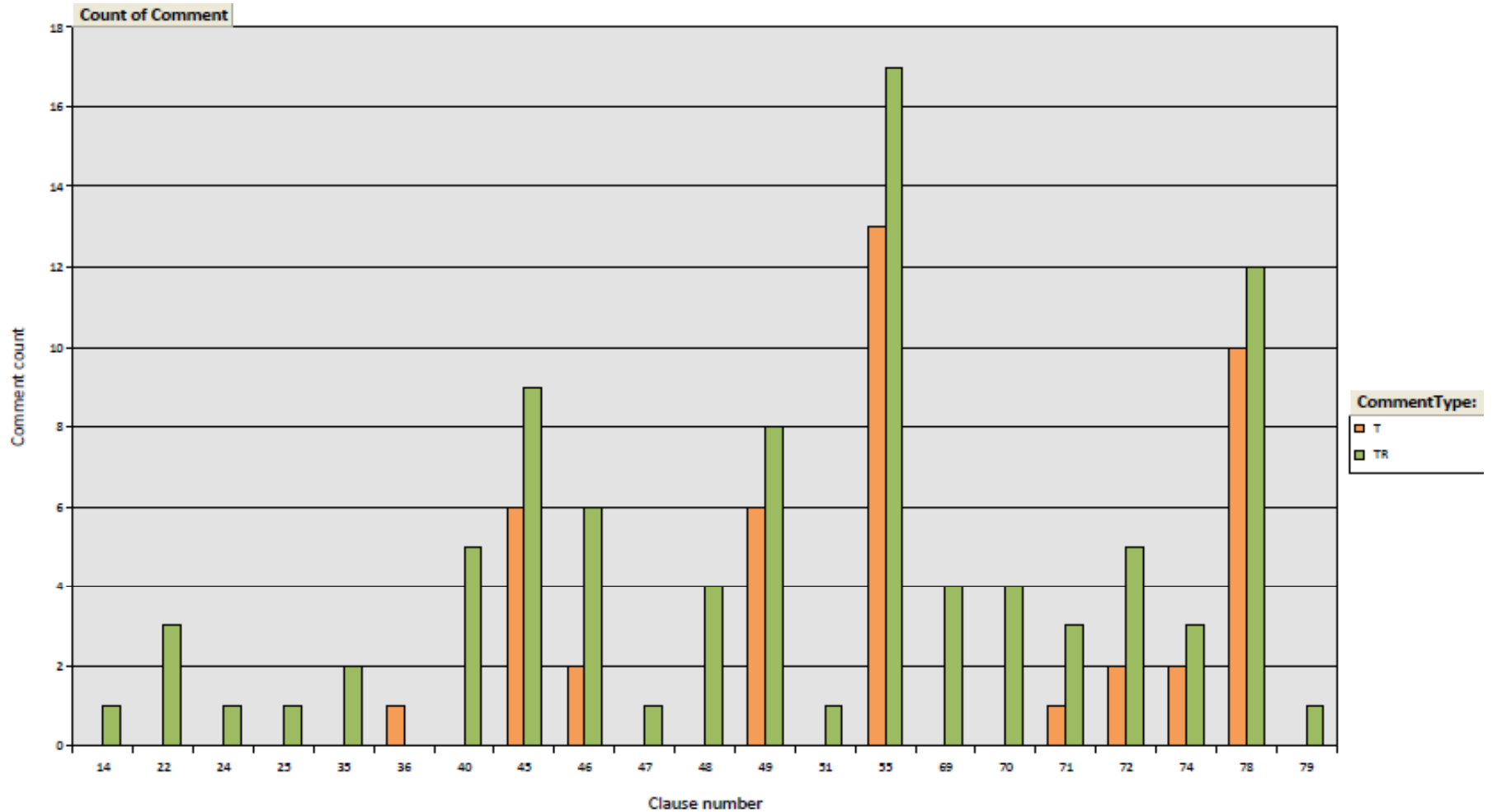
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■ Comment Results on D3.0 - required



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■ Comment Results on D3.0 - technical



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- May Interim – ITU, Geneva, CH
 - May 24-27, 2010

 - Thanks to our host, the ITU – great venue

 - Considered comments against D3.0

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■ Motions from the Interim

Motion #2 : W. Diab S: H. Barrass

Move to adopt the following for behavior during fast retrain:

- Link fault behavior as currently in the draft
- an option to send IDLE instead

Y: 11 N: 0 A: 1 (technical, 75%)

Motion #3 : W. Diab S: H. Barrass

Change section 78.4.2.2 under the definition of PHY WAKE
VALUE from

"representing the Tw_phy" to "representing Tw_sys_tx (min)"

Y: 6 N: 0 A: 1 (technical, 75%)

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■ Motions from the Interim

Motion #4 M. Hugh Barrass S: W. Diab

Accept comment resolutions, along with the proposed responses to unresolved editorial comments, from D3.0 as recorded in the comment database.

Direct the IEEE P802.3az editorial team to generate draft 3.1, based on Draft 3.0 and the resolution of comments against Draft 3.0 as recorded in the database including rogue comments and motion #3. Request the Working Group chair to initiate an IEEE SA sponsor ballot recirculation for P802.3az/D3.1

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- 10 unresolved comments

- 5 ER

- 1 GR

- 4 TR

- See <http://ieee802.org/3/az/comments/unsatisfied-D3-0a.pdf> for details.

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■ 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

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106 votes received = 83% returned

5% abstention

APPROVAL RATE

The 75% affirmation requirement is being met.

94 affirmative votes

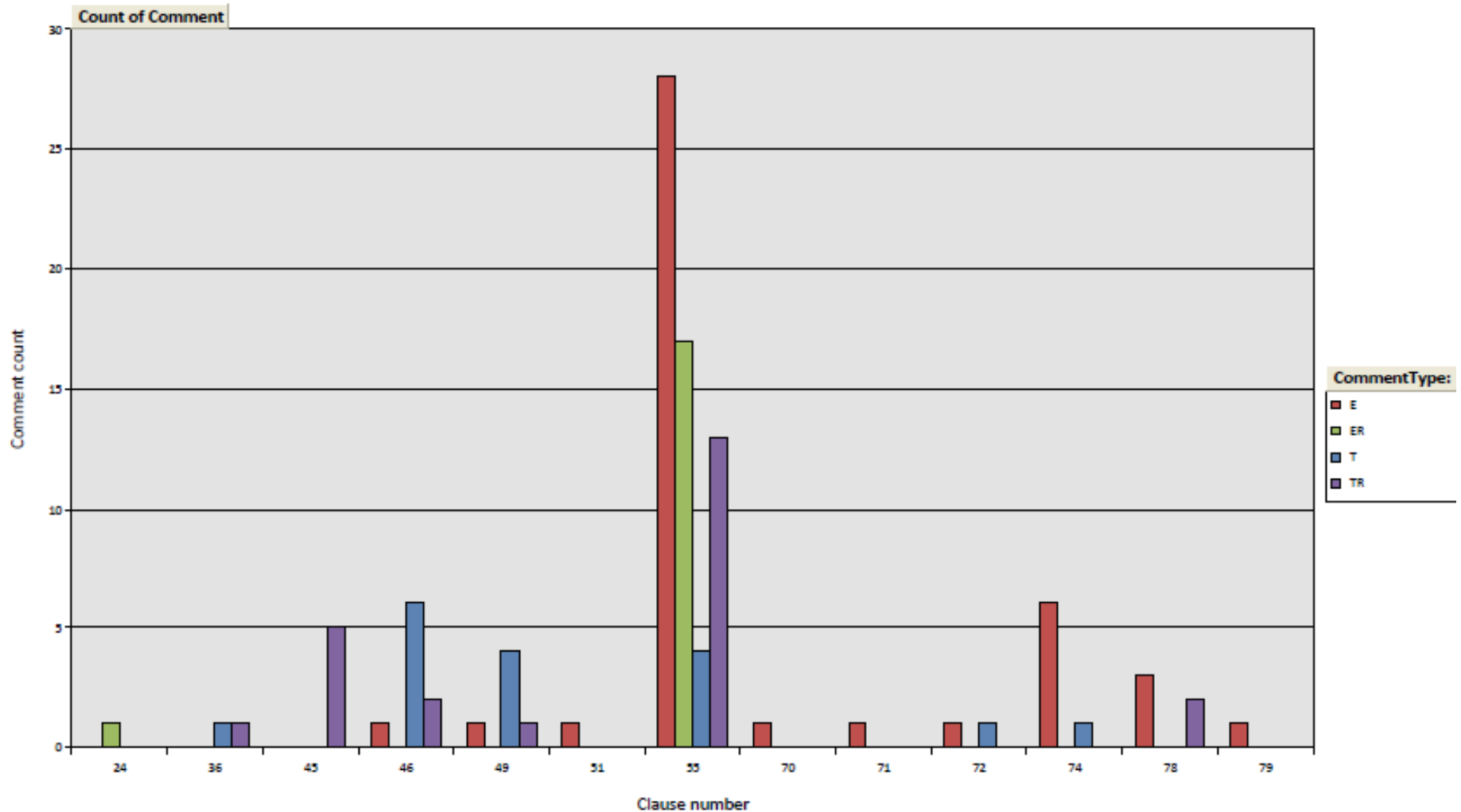
6 negative votes with comments

====

100 votes = 94% affirmative

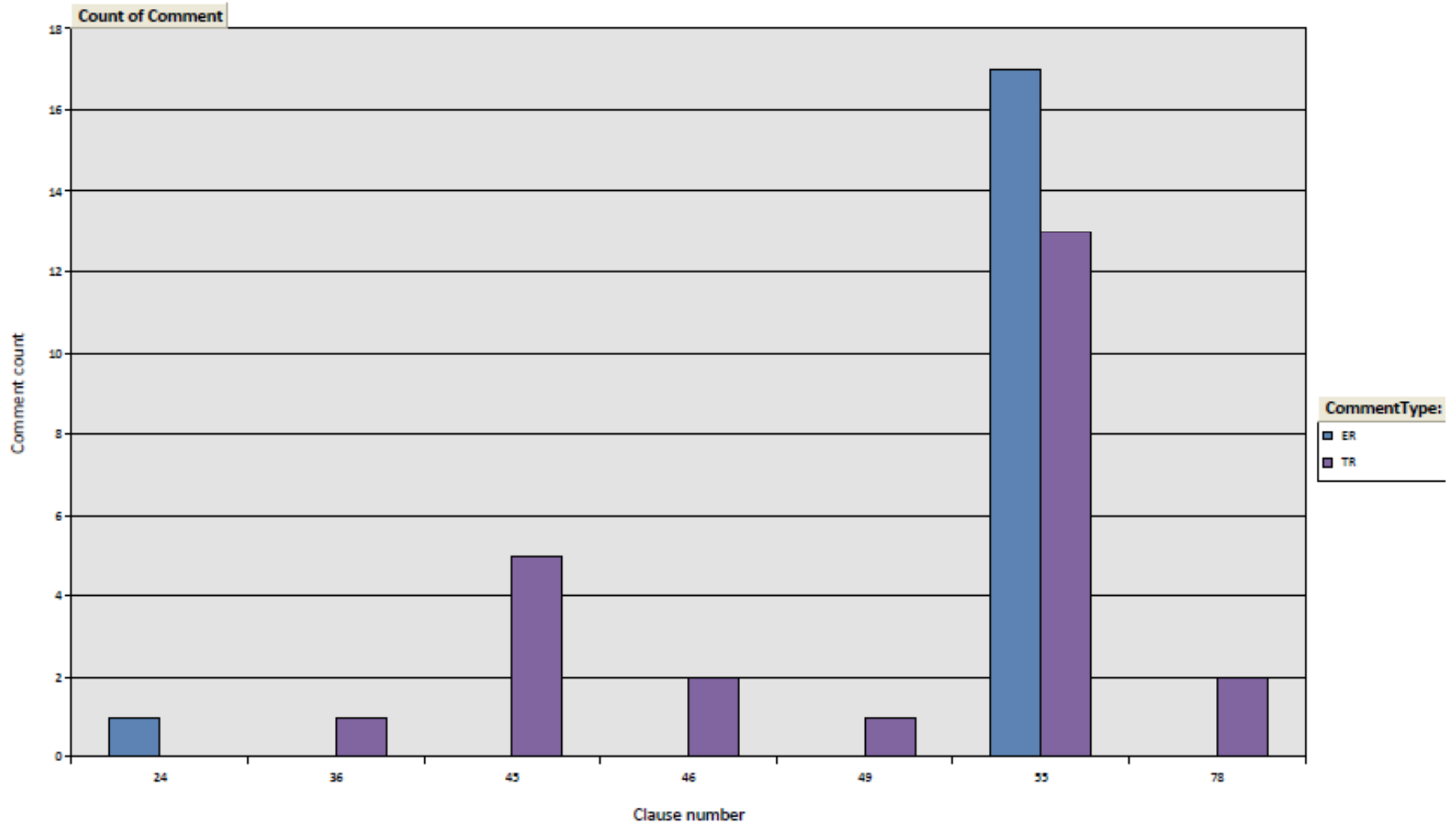
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■ Comment Results on D3.1 – all comments (103)



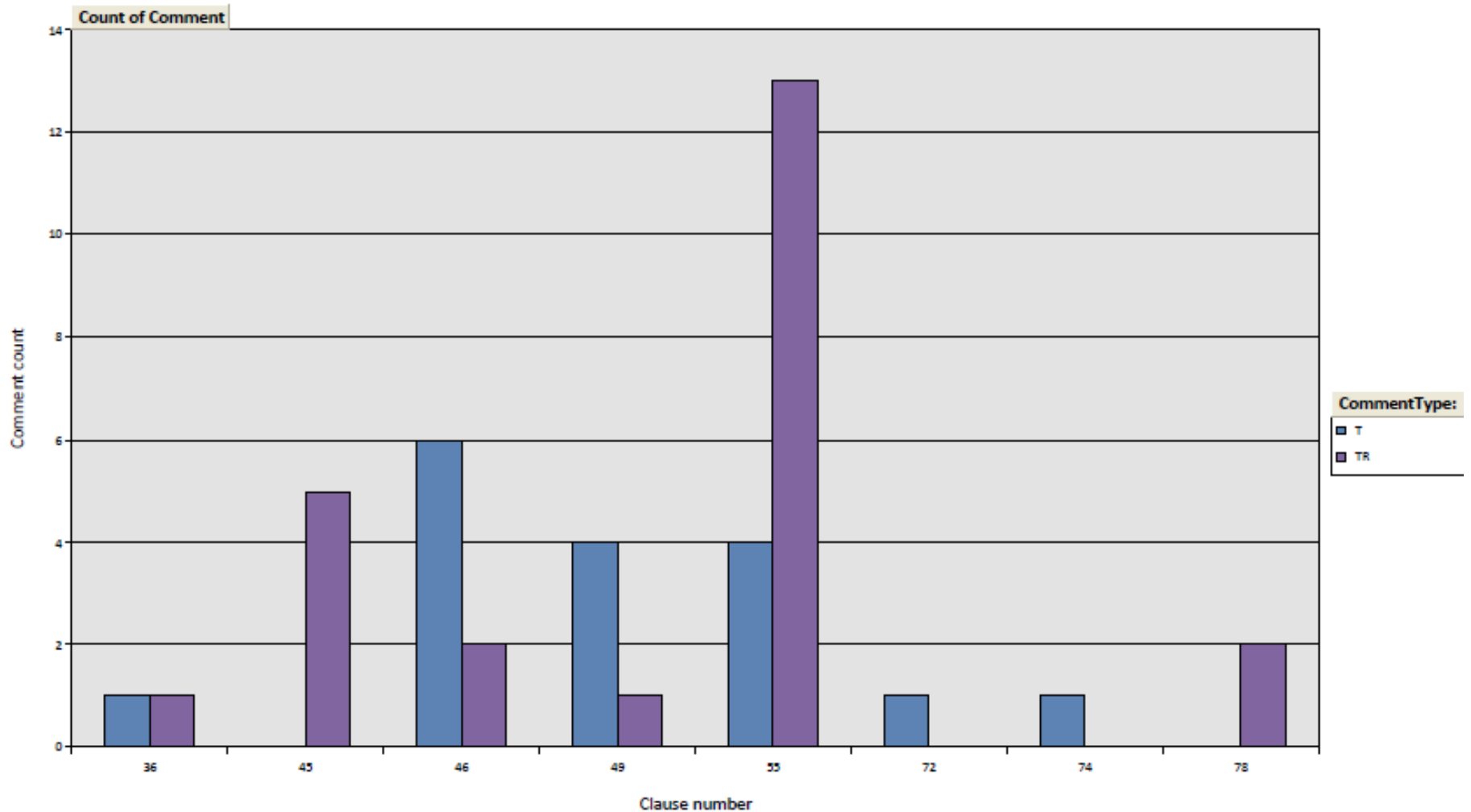
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■ Comment Results on D3.1 – required



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■ Comment Results on D3.1 – technical



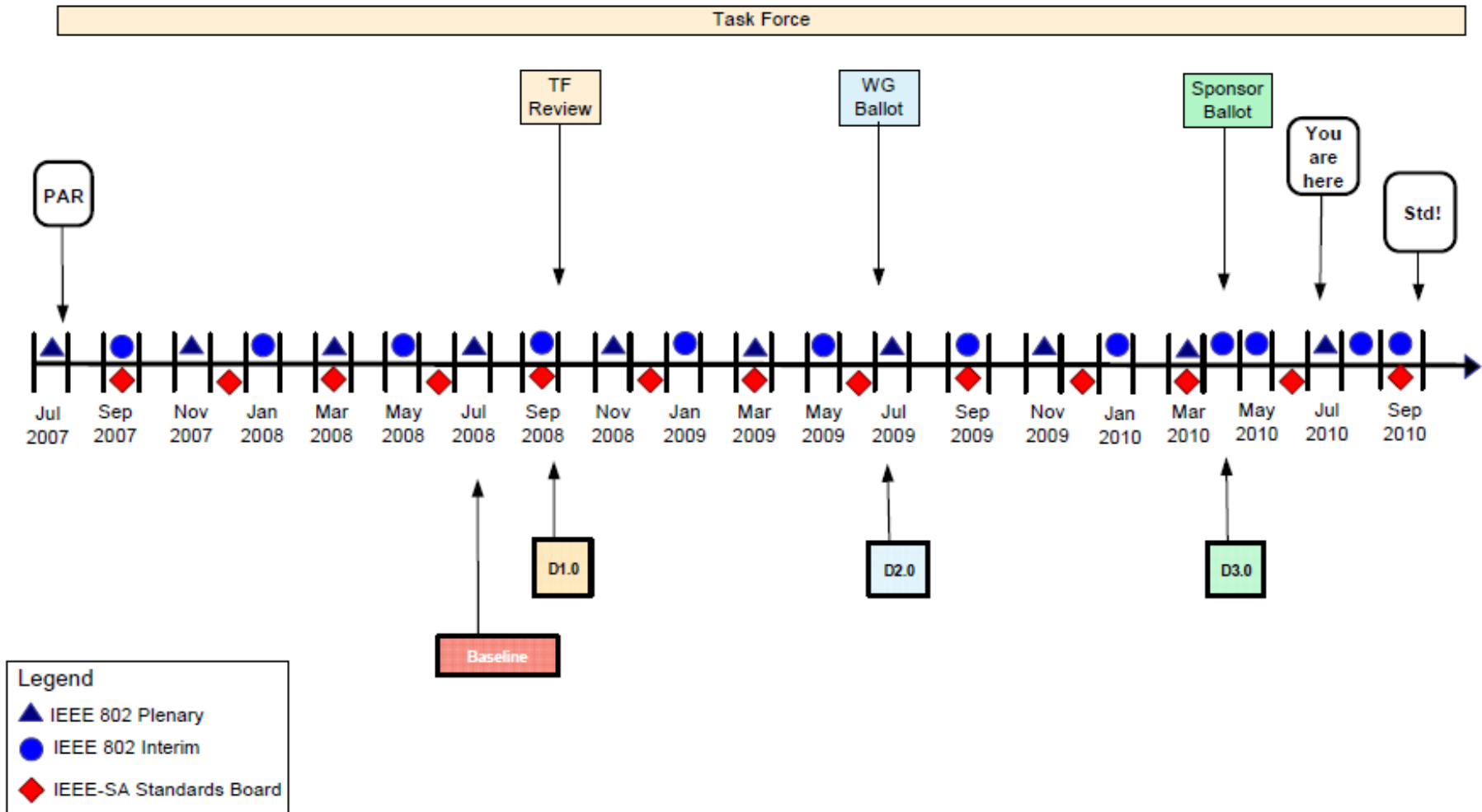
Goals for this Meeting

- Process comments against D3.1
- Direct editorial team to produce next draft

- *Stop making changes ...*
 - See
http://www.ieee802.org/3/az/public/jan10/diab_law_01_0110.pdf#Page=7

- Possibly ask for conditional approval to submit to Revcom

P802.3az timeline



Meeting the Sept. Deadline

- August interim – Date to be announced soon
 - Goals
 - Process comments against D3.2
 - Generate D3.3
 - If we make substantive changes during this week (plenary) the Aug. interim will not include teleconference
 - Have to be in the room to vote
- Submit to RevCom
- September interim (if substantive changes during this plenary week)
 - Goals
 - Process comments against D3.3
 - Generate D3.4
 - Submit results of recirculation to Revcom
 - So, to meet this deadline we need to stop making changes

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!

