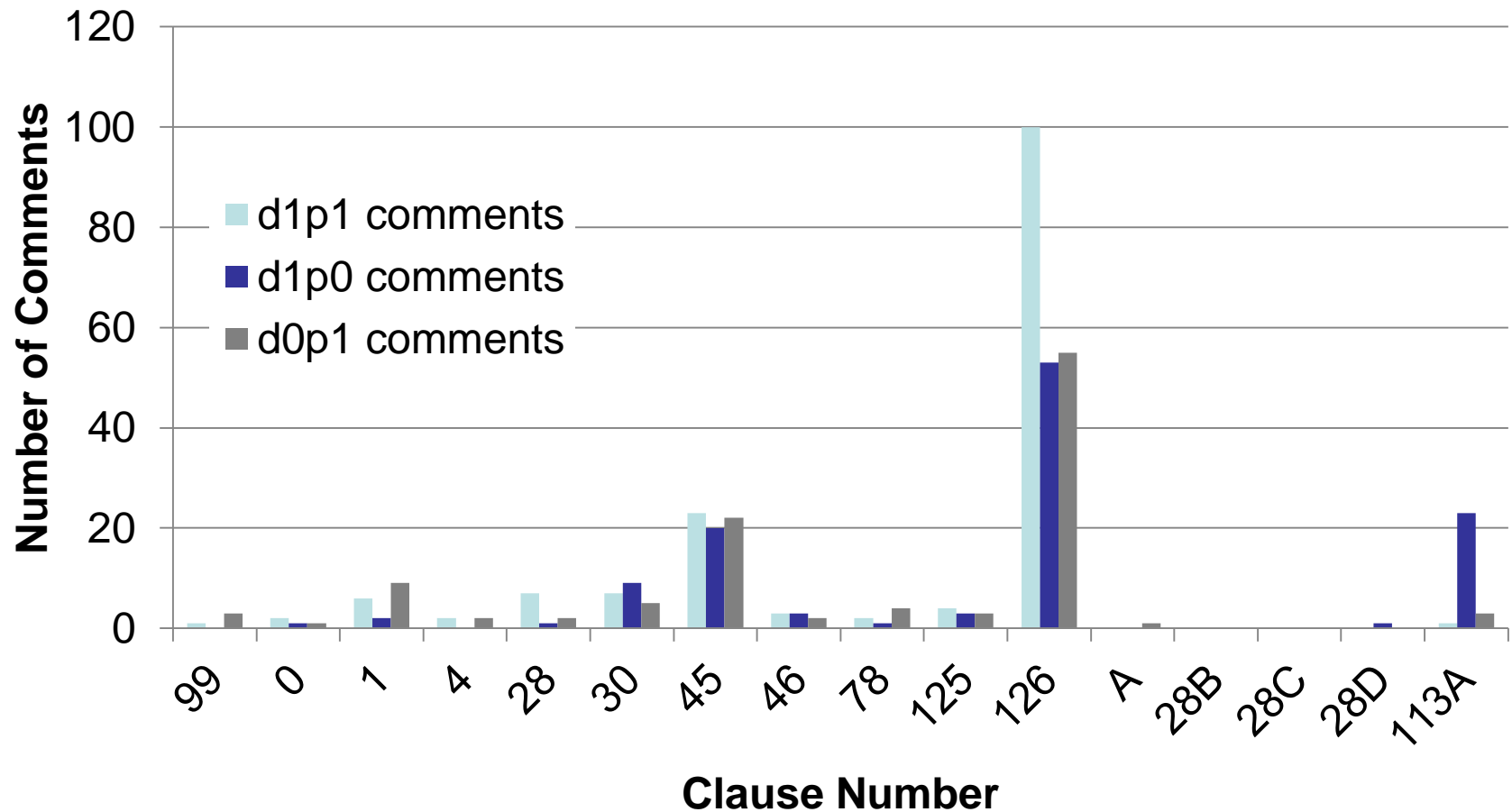# 802.3bz Editors Report

George Zimmerman
CME Consulting
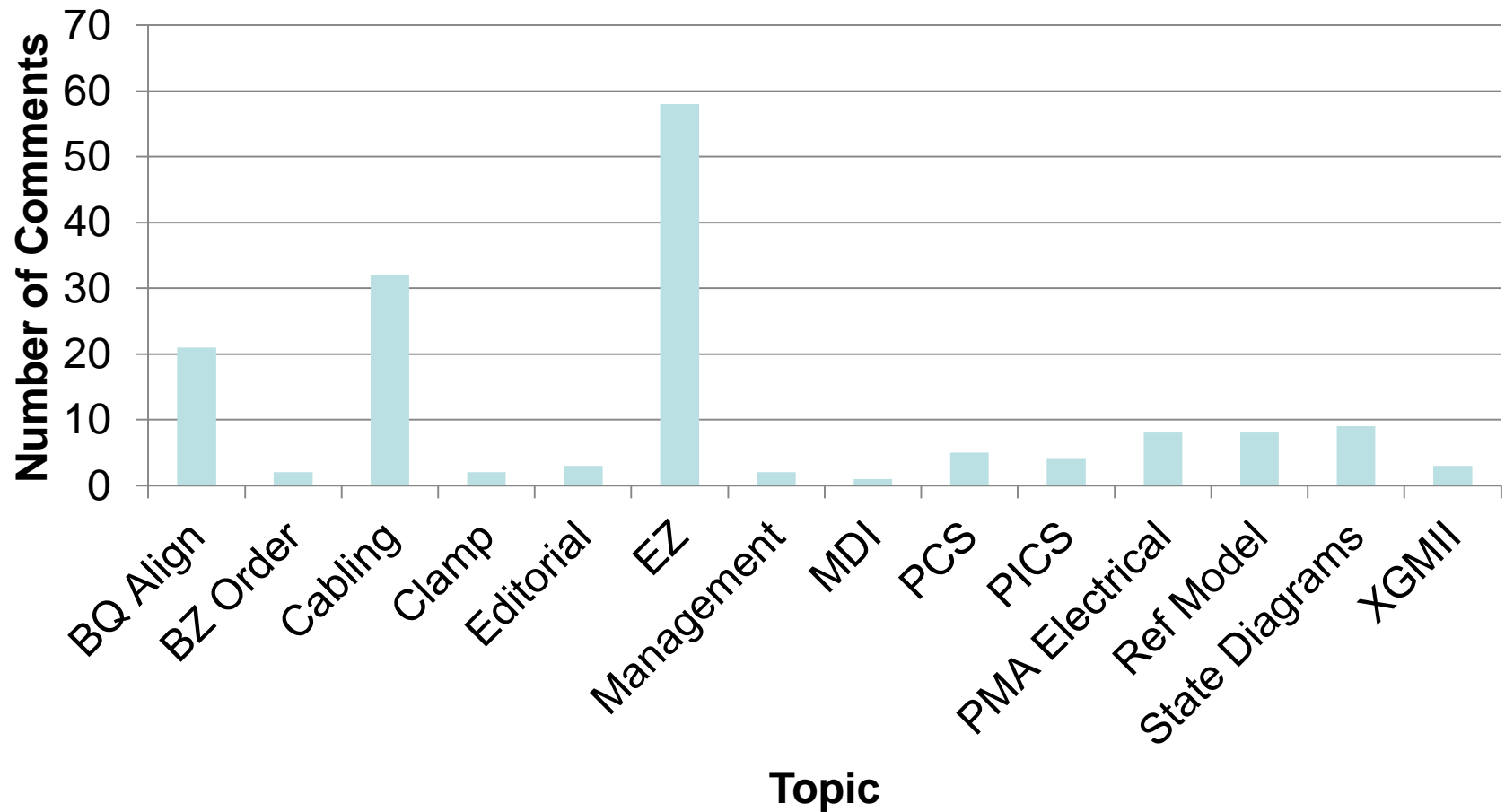## Chief Editor

Status

- ## Draft 1.1 Review
  - Opened October 7, 2015, Closed November 1, 2015
- ## 158 comments from 9 reviewers
  - A good mix, but not enough participation!

Type	E	ER	T	TR	G/GR
Number	85	14	52	7	0

Distribution of Comments

Distribution of Comments

Editorial Team

- George Zimmerman, Chief Editor
  - Clauses 78, 126
  - Clauses 1, 30, Annex A & 45 – BQ coordination
- Chris Diminico, Editor, Link Segment & MDI
  - Subclauses 126.7 & 126.8
- Jon Lewis, Editor, Clause 125 & PICS
- Mike Klempa, Editor, Clauses 4, 28, Annexes 28A-D & PICS
- Valerie Maguire, Editor, BQ coordination
- Brett McClellan, pre-reviewer

Comment Resolution Agenda

- Approve EZ Bucket (58 comments)
- Resolve in groups by Topic
  - BQ Align   21
  - BZ Order   2
  - Cabling   32
  - Clamp   2
  - Editorial   3
  - Management   2
  - MDI   1
  - PCS   5
  - PICS   4
  - PMA Electrical   8
  - Ref Model   8
  - State Diagrams   9
  - XGMII   3
  - Late comments

EZ Bucket

- As stated on the reflector:
  - Comments marked with the EZ topic are expected to be approved in a single motion
  - Please review http://www.ieee802.org/3/bz/comments/EZ_Committee_report_Clause_3bz_d1p1_proposed.pdf

  - At this time, if you wish to remove a comment from the EZ Topics, please speak up

Comments Excluded from EZ Bucket

- **Motion #3:** **Approve the proposed resolution of all EZ comments, marked with the EZ Topic in** http://www.ieee802.org/3/bz/comments/EZ_Committee_report_Clause_3bz_d1p1_proposed.pdf **excepting none.**

- **M: George Zimmerman   S: Jon Lewis**

- **MOTION PASSES (Technical >= 75%)**

- **BY VOICE VOTE WITHOUT OBJECTION**

Last Minute Comments

- Last call for last minute comments
  - None

Late Comment #1: Jim Graba

- 45-211b, P56, L10:

- Comment: Registers reporting link partner advertising should be read only. Bits 7.63.0 (line 10) and 7.63.1 (line 14) are both shown to be R/W.

- Suggested Remedy: Change the read/write capability to RO for bits 7.63.0 and 7.63.1

Table 45–211b—EEE link partner ability 2 (Register 7.63) bit definitions

Bit(s)	Name	Description	Clause reference; Next Page bit number	R/W[a]
7.63.15:2	Reserved	Value always 0		RO
7.63.1	5GBASE-T EEE	1 = Link partner is advertising that the 5GBASE-T has EEE capability 0 = Link partner is not advertising that the 5GBASE-T has EEE capability	126.4.2.5.10	R/W
7.63.0	2.5GBASE-T EEE	1 = Link partner is advertising that the 2.5GBASE-T has EEE capability 0 = Link partner is not advertising that the 2.5GBASE-T has EEE capability	126.4.2.5.10	R/W

[a]RO = Read only

Late Comment #2: German Feyh

- 126.3.7.2, P118, L34:

- Comment: lfer_timer window (nominally 125xS us for 2.5GBASE-T and 5GBASE-T). lfer_timer window is already defined in 126.3.6.2.3 Timers. Redundant definition confuses.

- Suggested Remedy: remove (nominally 125xS us for 2.5GBASE-T and 5GBASE-T) from text.

BZ Comments to do

- Hear presentation on linearity test

- Consider adding comment:

- 126.5.3.2, Page 156, Line 43, Type: T

- Comment:
  - Include transmit linearity test for 2.5G which simulates the stress of a far-end signal into the transmitter

- Suggested remedy:
  - Remove editor's note.
  - Add new figure for test fixture after 126-34 entitled Test Fixture 4 , as shown on page 7 of Farjadrad_3bz_01a_1115.pdf
  - Insert text at page 157 line 4, as new paragraph (see next slide):

Linearity - possible new text

Additionally, for 2.5GBASE-T, when in test mode 4, at 2dB PBO, and observing the spectrum of the differential signal output at the MDI using transmitter test fixture 4, for each pair, while injecting a 45 MHz sine wave from the signal generator so that it has an amplitude 4 dB below the peak of the transmitter at the MDI, with no intervening cable, the transmitter nonlinear distortion mask is defined as follows: The SFDR of the transmitter, with dual tone inputs as specified in test mode 4, shall meet the requirement that:

- SFDR >= -5.5 + min { 52, 58-20log10(f/25)
- where f is the maximum frequency of the two test tones in MHz and SFDR is the ratio in dB of the minimum RMS value of either input tone to the RMS value of the worst intermodulation product in the frequency range of 1 MHz to Sx200 MHz.