

Chief Editor's opening report

Pete Anslow, Ciena, P802.3bs Chief Editor

IEEE P802.3bs Task Force, Macau, China, March 2016

Editorial team

Pete Anslow, Ciena

- Chief Editor and Editor for Clauses FM, 00, 1, 4, 30, 45, 78, 116, A, 4A, 31B, 93A, 120B, 120C

Mark Gustlin, Xilinx

- Editor for Clauses 117, 118, 119

Steve Trowbridge, Alcatel-Lucent

- Editor for Clause 120, 120A

Jonathan King, Finisar

- Editor for Clause 121

Peter Stassar, Huawei

- Editor for Clauses 122, 123

Andre Szczepanek, Inphi

- Editor for Annexes 120D, 120E

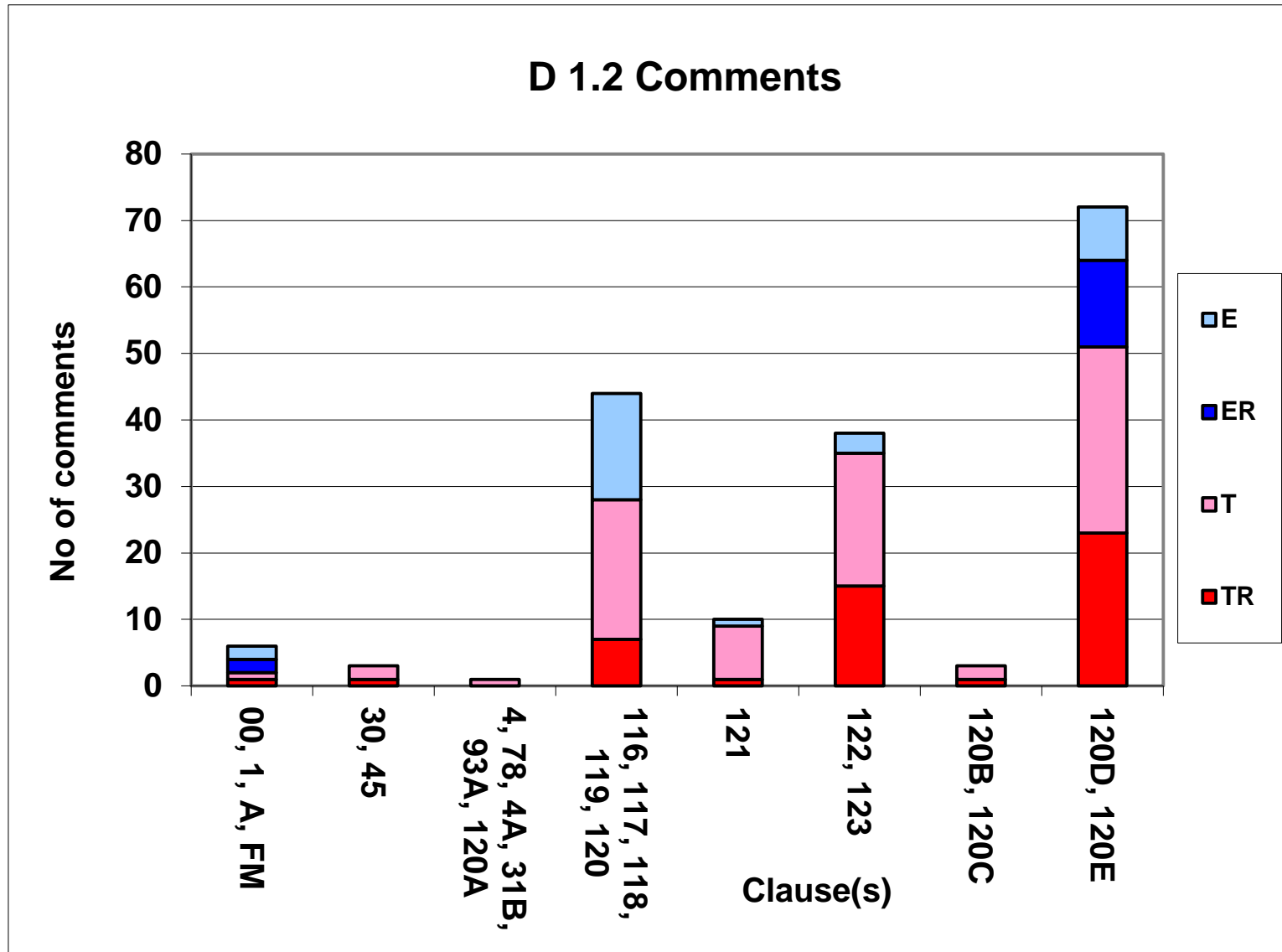
Status

P802.3bs D1.2 Task Force review

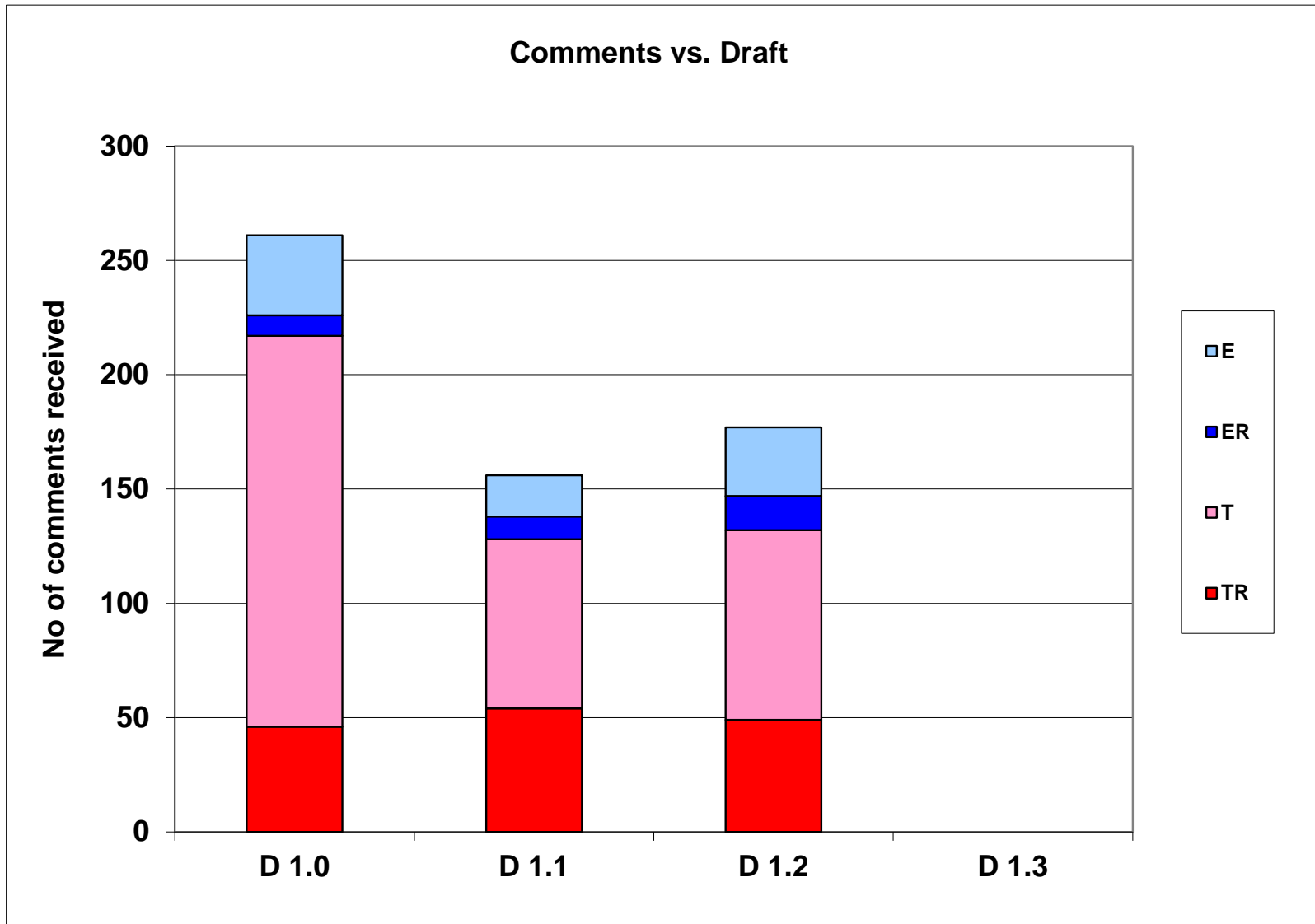
- Opened 6 February 2016, closed 25 February 2016
- 20 day comment period
- 177 comments received
- Thanks to those who commented
- Proposed responses posted

Description	Clause(s)	TR	T	ER	E	Total
Front matter, Intro	00, 1, A, FM	1	1	2	2	6
Management	30, 45	1	2			3
Misc	4, 78, 4A, 31B, 93A, 120A		1			1
Intro, RS, PCS, PMA	116, 117, 118, 119, 120	7	21		16	44
MMF PMD	121	1	8		1	10
SMFPMDs	122, 123	15	20		3	38
CDAUI-16	120B, 120C	1	2			3
CDAUI-8	120D, 120E	23	28	13	8	72
Total comments		49	83	15	30	177

Comment distribution



Comment history



Meeting goals

Resolve comments against Draft 1.2

- Comment resolution agenda in later slides
- Any presentations associated with comments will be reviewed during comment resolution session
- T and TRs will be treated with same status, no signoff is required
- E and ERs will be treated with same status, no signoff is required

Editors have identified non-controversial comments as candidates for a bucket motion. These comments will not be reviewed individually, but will be resolved as proposed via a single motion.

The initial list of comments for the bucket motion is on slide 12 (also marked “Bucket” in comments file, please review this and ask for a comment to be taken off the list if you don’t agree with the proposed response.

Comment resolution

- The comments on the following slides will be resolved in sessions of the P802.3bs Task Force starting on 14 Mar.
 - Page 8 in Task Force on Monday
 - Page 9 in Logic track on Tuesday
 - Page 10 in Optics track on Tuesday
 - Page 11 in Electrical track on Tuesday
- The order in which the comments are reviewed and the schedule are **subject to change**
- Comments bracketed together with [] cover a common topic
 - Where a comment number is coloured blue it contains the proposed response for the group of comments
- Comments with underline (e.g., 300) have associated hyperlinked presentations.

Comments across clauses (8 comments) target Monday pm

- [26, 25] Naming
- 90 PAM4
- 31, [29, 177] Definitions
- debernardinis, ghiasi, CRU bandwidth
- [161, 160] pre-FEC degrade

Clause 45 (1 comment) target Monday pm

- 176 Unused registers

Clauses 116, 121, 118 (6 comments) target Monday pm

- 22, 167, [24, 49], 33, 32 Delay, Skew, Clause 118

Annexes 93A, 120B, 120C (4 comments) target Monday pm

- 89 Annex 93A
- 101 AC-coupling
- 122, 123 Annex 120C

Clause 119 (14 comments) Logic track

- 68, 162, 76
- [[3](#), 69, 21, 1], 2
- 71, [163](#), 130, 74
- 23
- 80

Wording

AMs

FEC related

AM lock

Loopback

Clause 120 (8 comments) Logic track

- 82, 85
- 83, 84
- 131
- 50, 51, 52

Functions

Wording

Errors

Test patterns

Clauses 121 (9 comments) Optics track

- 86, 87, 88, 119, 120, 121
- [[118](#), 60, 61]

General

Hazard level

Clause 122 (22 comments) Optics track

- [[172](#), [142](#), [150](#), 133, 151, 134, 152, 153, 135, 62
- 168, 53
- 170, 175, 102, 103
- [[169](#), 59], 54, 100, [136, 154]

Reflections

OMA_{outer}, ER

Test methods

General

Clause 123 (16 comments) Optics track

- [[173](#), [174](#), 155, 137, 138, 156, 139, 157, 63, 158, 140]
- 116, 117
- 171, [159, 141]

Reflections

Test methods

General

Annex 120D (29 comments) Electrical track

- 6, 106
- 27, [[145](#), 91, 55], [93](#), 104, 146
- [[149](#), 56], 57, 92
- 98, 96, 97, 94, [[58](#), 105], 34
- [35, 7], 124, 8, 9, 143, 10, 11, 12

Annex 120E (41 comments) Electrical track

- [36, 107], 108
- [[113](#), 109], 13, 38
- [[128](#), 39, 14], 126, [[110](#), 114], 129
- 127, 18, 15, 40, [115, 111, 144, 5], [[20](#), 41, 42], 16
- [112, 147], 19, 4
- [148](#), 132, 43, 44, 45, 46, 47, [[125](#), 48]
- 37, 17

Intro

Transmitter

Jitter

Receiver

COM params

Intro

Host output

Module output

Host input

Module input

Measurement

General

Comments for bucket motion (19 comments)

- 64, 70, 77, 95, 99 Editorial
- 164, 165, 166 Typographical
- 65, 66, 67, 73, 75, 78, 79 Wording
- 81 PICS
- 72 Tables
- 28, 30 CDXS

Open questions for PCS and PMA

- PCS sublayer delay constraints and skew values are TBD or “magenta”
- 400G AM fields are TBD
- What criteria should be used for AM lock, unlock?
- PMA generated test patterns
 - Refinement needed
- MMD Device Numbering
 - Can we reduce to three maximum PMA instances per end since there is no stand alone FEC separate from the PCS?
 - How does CDXS affect MMD device numbering?

Open questions for 400GBASE-SR16

- Hazard level

Open questions for 400GBASE-DR4/FR8/LR8 (PAM4 optics)

- Definition of OMA for a PAM4 modulation format
 - Are two definitions needed, one for inner and the other for outer?
 - Alternatively, is it better to define only outer OMA and control inner eye uniformity via a penalty?
- Definition of ER for a PAM4 modulation format
- TDP (Transmitter and Dispersion Penalty) is used to control transmitter eye quality and spectral characteristics for single-mode PMDs such as 100GBASE-LR4.
 - How will this be done for a PAM4 transmitter in 400GBASE-DR4/FR8/LR8?
 - What should the specification for the reference receiver be?
- Stressed receiver sensitivity
 - How should the stressed signal be generated?
 - How should the amount of stress in each sub-eye be controlled?
- Reflection budget
 - What reflection levels and penalty budget are needed?

Open questions for CDAUI-8

- COM parameter magenta values
- Transition times
- Jitter parameters

Thanks!