

Chief Editor's Report

IEEE 802.3

P802.3cz Multi-Gigabit Optical Automotive Ethernet
Task Force

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P802.3cz Editor-in-Chief, KDPOF

Ad Hoc Task Force teleconference, 9 March 2021

Summary

- Received comments stats
- Remarks about comment sheets
- Comment resolution agenda and roadmap
- Clause number assigned
- Thanks to commenters
- Next steps

Received comments stats

Stats_by_Clause

Clause	E	G	T	ER	GR	TR	Open	Closed	Total
↓	2	0	0	0	0	0	2	0	2
00	13	0	0	0	0	0	13	0	13
1	2	0	2	0	0	0	4	0	4
105	6	0	3	0	0	0	9	0	9
115	45	0	2	0	0	0	47	0	47
125	5	0	9	0	0	0	14	0	14
131	5	0	5	0	0	0	10	0	10
30	1	0	2	0	0	0	3	0	3
30,3	1	0	0	0	0	0	1	0	1
300	67	0	79	0	0	0	146	0	146
300,1	3	0	1	0	0	0	4	0	4
300,12	1	0	1	0	0	0	2	0	2
300,3	1	0	0	0	0	0	1	0	1
44	4	0	6	0	0	0	10	0	10
45	53	0	17	0	0	0	70	0	70
FM	16	0	1	0	0	0	17	0	17
Total	225	0	128	0	0	0	353	0	353

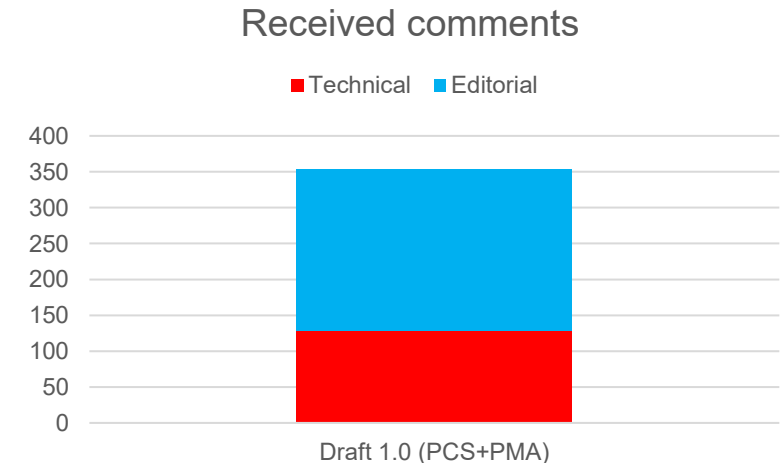
Page 1 of 1

- 353 comments
 - 225 Editorial
 - 128 Technical
- Most of the Technical comments on Clause 45 and Clause 300
- Editorial comments on 115, even on content that is already published by IEEE

Received comments stats

Stats_by_Topic									
lunes, 8 de marzo de 2021									
18:46:19									
Topic	E	G	T	ER	GR	TR	Open	Closed	Total
	14	0	14	0	0	0	28	0	28
BASE-AU	4	0	1	0	0	0	5	0	5
BASE-U	2	0	11	0	0	0	13	0	13
Clause 115 modification	42	0	0	0	0	0	42	0	42
Cross Reference	1	0	3	0	0	0	4	0	4
Details	1	0	1	0	0	0	2	0	2
EEE registers	0	0	1	0	0	0	1	0	1
EZ	71	0	25	0	0	0	96	0	96
FEC decoder error	0	0	3	0	0	0	3	0	3
Loopback and test modes	1	0	2	0	0	0	3	0	3
Miss text	0	0	2	0	0	0	2	0	2
Modulation	0	0	13	0	0	0	13	0	13
Mux	0	0	7	0	0	0	7	0	7
OAM	2	0	10	0	0	0	12	0	12
OAM - Dependability	0	0	1	0	0	0	1	0	1
optical fiber	12	0	10	0	0	0	22	0	22
PAM	34	0	3	0	0	0	37	0	37
Position of shall statements	0	0	2	0	0	0	2	0	2
Receiver	0	0	4	0	0	0	4	0	4
Re-structure text	4	0	1	0	0	0	5	0	5
shall statements	35	0	0	0	0	0	35	0	35
Terminology	2	0	5	0	0	0	7	0	7
Transmit Block synch	0	0	4	0	0	0	4	0	4
tx_xmii_idle	0	0	5	0	0	0	5	0	5
Total	225	0	128	0	0	0	353	0	353

- Sorted into 23 different topics
- First row corresponds to miscellaneous comments that have not been classified



Remarks about comment sheets

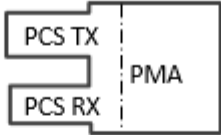
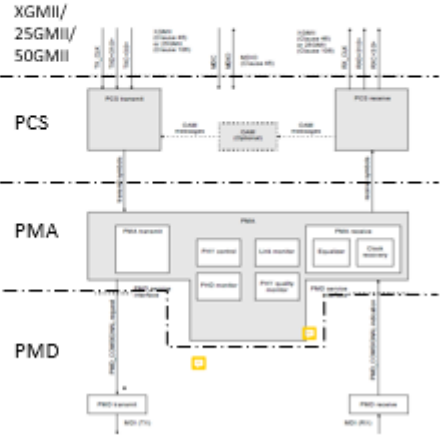
Stats_by_Clause

Clause	E	G	T	ER	GR	TR	Open	Closed	Total
↓	2	0	0	0	0	0	2	0	2
00	13	0	0	0	0	0	13	0	13
1	2	0	2	0	0	0	4	0	4

5	Category	Page	Sub-clause	Line #	Comment	Proposed Change
33	Editorial	36	45.2.3.5b	14	Comparing to other names in the table, "local" may be added.	EEE ability → local EEE ability
34	Editorial	36	45.2.3.5b	17	"LH = Latching high" is not used in the table.	delete it from the foot note.
35	Editorial	36	45.2.3.47b.	1	If these sentence are requirements, "shall" should be used.	reflects → shall reflect
36			↓			
37		36	45.2.3.47b.	6	same as above	same as above
38	Editorial	37	45.2.3.47b.	7	If these sentence are requirements, "shall" should be used.	indicates → shall indicate
39			↓			
40			45.2.3.47b.	10	same as above	same as above

- Import tools are not perfect
- Something that is perfectly understandable in an excel sheet is imported as a comment on a wrong Clause
- Please use a single entry per comment, and fill all fields

Remarks about comment sheets

Technical	73	300.1.4	48	PCS TX/RX looks like detachable mechanical interface like MDI.	
Technical	75	300.1.4		Make the relations to PHY sublayers more clear.	

- Import tools are not perfect
- The system do not allow to import graphs as a proposed remedy.
- Please provide in these case a separate presentation in pdf format to be discussed in the TF.

Comment Resolution Roadmap

Order	Topic	Number of comments	First comment
1	OAM	12	#171
2	Clause 115 modification	42	#252
3	Cross Reference	4	#19
4	OAM - Dependability	1	#130
5	BASE-AU	5	#121
6	BASE-U	13	#1
7	Terminology	7	All
8	optical fiber	22	#150
9	PAM	37	#315
10	Modulation	13	#46
11	Mux	7	#65
12	Receiver	4	#86
13	Miss text	2	All
14	Details	2	All
14	Transmit Block synch	4	#63
15	Loopback and test modes	3	All
16	EEE registers	1	#16
17	tx_xmii_idle	5	#104
18	FEC decoder error	3	#77
19	Position of shall statements	2	#189
20	shall statements	35	#201
21	Re-structure text	5	#184
22	Blank	28	#352
23	EZ	96	#131

- OAM: Inclusion of OAM specification into Clause 300 instead of referencing to 115
- Clause 115 modification: Reject the comments on Clause 115 (already part of 802.3)
- Cross reference: Centralize all references to Clause 115 in a single subclause in Clause 300
- OAM dependability (PHY Health): Add a task in the ToDo list to include PHY health registers in the Draft

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- BASE AU/BASE-U: Adopt the terminology used in other Clauses to name PCS, PMA and complete PHY
- Terminology: Several comments on terminology (xGMII, PDBs, etc)
- Optical fiber: Comments on definition of optical fiber to be used
- PAM: Use of term NRZ instead of PAM2
- Modulation: Remove PAM2 modulation from draft

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- Mux: Substitute in block diagrams the mux and PHD block ordering by PCS transmit ordering
- Receiver: Improve receiver description
- Miss text: Some subclauses that need to be added
- Details: Comments on the level of detail of certain descriptions/specifications

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- Transmit Block synch: Comments on the synchronization of the system with the Transmit Block
- Loopback, Test Modes and EEE registers
- Tx_xmii_idle: Comments on a possible deadlock in the PCS transmit state machine
- FEC decoder error: Comments on how to specify the generation of /E/ code in the receiver and other comments related.

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- Position of shall statements and shall statements: Comments on where to write the shall statements in the draft and whether the shall statements are necessary.
- Re-structure text: Comments on subclause re-structuring
- Blank: Miscellaneous comments that need to be addressed one by one
- EZ: Comments that points a typo, an evident error, or that clearly improves the text

Clause number assigned

2.5/5/10/25/50GBASE-AU will be Clause 166 in the next IEEE 802.3 Standard

Draft 1.1 will include the newly assigned Clause number

Thanks to the commenters!

Please keep on commenting and improving our Draft

Next Steps

- Propose and adopt baseline for 2.5/5/20/25 Gb/s PMD, MDI and medium
- Propose and adopt baseline for 50 Gb/s PCS/PMA/PMD, MDI and medium
- Propose and adopt P802.3cz extensions to EEE
- Propose and adopt test modes and test cases

Thanks!

Questions?