

Chief Editor's Report

IEEE 802.3

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

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Summary

- Comment review status
- Thanks to commenters
- D1.1 schedule and contents
- Next steps
 - Expected PMD contributions
 - Expected PCS/PMA contributions

Comment review status

- 353 comments (225 Editorial / 128 Technical)
- Originally, five meetings were scheduled for comment resolution (9, 10, 16, 17 and 23 March)
- Due to PMD discussions, only half of the meeting on 9 March, and the complete meeting on 23 were used for comment resolution
- Additional meetings on 30 March and 6, 12 and 20 April were scheduled
- 30 March (half), 13 and 20 April were effectively used for comment resolution
- So we've used for comment resolution 4 complete meetings.

Thanks to the commenters!

Please keep on commenting and improving our Draft

D1.1 schedule and contents

- Contents:
 - 353 comment resolution implementation (225 Editorial / 128 Technical)
 - Eye Safety as approved by TF (Motion #3, 26 January 2021)
- Schedule
 - The D1.1 version of the draft will be distributed for commenting by 14 May.

Next Steps

- In the following slides, using Ishiro Ogura's decision matrix, gaps have been identified where contributions are needed.
- The proposal is to add to the ToDo list due dates for contributions that fill the identified gaps.
- Next meeting (May 11th), TF participants should propose contributions and due dates to be included in the ToDo list.

Expected PMD contributions (cont.)

Description	Unit	VCSEL+OM3	VCSEL+POF	VCSEL+OM3	VCSEL+POF	Si-photonics+OM2,3	Si-photonics+POF
Nominal wavelength	nm	850	850	980	980	1310	1310
Fiber type		OM3	POF	OM3	POF	OM2-OM3	POF
Feasibility		[1], [2], [17], [18]	[28], [29]	[1], [2], [17], [18]	[28], [29]	[21], [22], [23], [25], [27]	Contribution needed
Reliability		[14], [15], [16] Contribution with more data needed	Contribution needed	[14], [15], [16] Contribution with more data needed	Contribution needed	[27], Contribution with more data needed	Contribution needed

Expected PMD contributions (cont.)

Description	Unit	VCSEL+OM3	VCSEL+POF	VCSEL+OM3	VCSEL+POF	Si-photonics+OM2,3	Si-photonics+POF
Nominal wavelength	nm	850	850	980	980	1310	1310
Fiber type		OM3	POF	OM3	POF	OM2-OM3	POF
Relative cost		[26]	Contribution needed	[26]	Contribution needed	Contribution needed	Contribution needed
Industry support		[24]	Contribution needed	[24]	Contribution needed	[25] Automotive industry support contribution needed	Contribution needed

Expected PMD contributions (cont.)

Description	Unit	VCSEL+OM3	VCSEL+POF	VCSEL+OM3	VCSEL+POF	Si-photonics+OM2,3	Si-photonics+POF
Nominal wavelength	nm	850	850	980	980	1310	1310
Fiber type		OM3	POF	OM3	POF	OM2-OM3	POF
PMD TX and RX Optical Characteristics and test		Contribution needed	Contribution needed	Contribution needed	Contribution needed	Contribution needed	Contribution needed

Expected PCS/PMA contributions

Description	
EEE/LPI support	Contribution needed
50 Gbps PCS/PMA	Contribution needed

References

- [1] perezaranda_OMEGA_02c_1119_InGaAs_25G_VCSEL
- [2] perezaranda_OMEGA_01a_0120_50G_PAM4
- [3] perezaranda_3cz_01_271020_25G_link_budget
- [4] perezaranda_3cz_02_271020_10G_link_budget
- [5] perezaranda_3cz_03_271020_25G_emb_impact
- [6] perezaranda_3cz_02a_221220_reliability_linkbdget
- [7] pimpinella_3cz_01_271020
- [8] perezaranda_OMEGA_01b_0720_VCSEL_test_methods
- [9] perezaranda_OMEGA_02a_0720_VendorA_VCSEL
- [10] perezaranda_OMEGA_03a_0720_VendorB_VCSEL
- [11] perezaranda_OMEGA_04a_0720_VendorC_VCSEL
- [12] perezaranda_OMEGA_05a_0720_VendorD_VCSEL
- [13] perezaranda_3cz_01b_0820_VendorE_VCSEL
- [14] perezaranda_OMEGA_05a_1119_VCSEL_Reliability
- [15] king_3cz_01_1120
- [16] perezaranda_3cz_02a_221220_reliability_linkbdget
- [17] perezaranda_OMEGA_03_0120_25G_OFS_fiber
- [18] perezaranda_OMEGA_02_0120_25G_Corning_fiber
- [19] perezaranda_3cz_01_090221_gipof_linkbudget
- [20] watanabe_3cz_01_090221_gipof
- [21] ogura_OMEGA_01_1119
- [22] ogura_OMEGA_01_0120
- [23] ogura_3cz_01_0121
- [24] perezaranda_3cz_01d_0321_pmd_comparison.pdf
- [25] kurata_3cz_01_0321.pdf
- [26] pimpinella_3cz_01a_0920.pdf
- [27] ogura_3cz_01_0321.pdf
- [28] watanabe_3cz_01_0321.pdf
- [29] takayama_3cz_01_0321_auto_appl_pof.pdf

Important dates

- D1.1 will be available by 14 May
- TF participants are encouraged to provide due dates for needed contributions to be included in the ToDo list by 11 May.

Thanks!

Questions?