

IEEE P802.3ct Task Force: 100 Gb/s and 400 Gb/s over DWDM Systems

Opening Report

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IEEE P802.3ct Task Force Project information

Task Force Organization

- John D'Ambrosia, Chair, IEEE P802.3ct Task Force
- Editorial Team
 - Tom Issenhuth – Chief Editor, 400 GbE Optical PHY Clause
 - Pete Anslow – Supporting Clauses (Thanks for his contributions to this point!)
 - Peter Stassar – 100 GbE Optical PHY Clause
 - Steve Trowbridge - 100 GbE PCS/FEC/PMA Extender Clauses
 - John DeAndrea - 400 GbE PCS/PMA Clauses
- Task force web and reflector information
 - Reflector: <http://www.ieee802.org/3/ct/reflector.html>
 - Home page: <http://www.ieee802.org/3/ct/index.html>
- Project Documentation –
 - PAR : http://www.ieee802.org/3/ct/P802_3ct_PAR.pdf
 - CSD: <https://mentor.ieee.org/802-ec/dcn/18/ec-18-0249-00-ACSD-p802-3ct.pdf>
 - Objectives: http://www.ieee802.org/3/ct/3ct_Objectives_190212.pdf
 - Timeline: http://www.ieee802.org/3/ct/timeline_3ct_190119.pdf
- Ad Hoc page: <http://www.ieee802.org/3/ct/public/adhoc/index.html>

Activities since Jul 2019 Plenary (1 of 2)

- **Sept 2019 Interim**

- 73 attendees
- 5 technical presentations
 - Adopted 191.4 to 1961 THz Frequency Range (based on 100 GHz spacing, 48 channels) for 100 GbE Objective (Passed without opposition)
 - Data Center need for 75 GHz spacing, 64 channels
 - Approved documentation packages to split IEEE P802.3ct Project (See following page)
 - Modified Project IEEE P802.3ct – 100 GbE over DWDM System
 - New Project IEEE P802.3cw – 400 GbE over DWDM System
- Approved generation of IEEE P802.3ct D1.0, based on 100 GbE Objective (Passed without opposition)
- Received liaison from OIF – Progress on 400ZR Project
- Approved liaison to 1) ITU-T – Progress on 100GBASE-ZR; and 2) OIF / ITU-T – Progress on 400GBASE-ZR

Activities since July 2019 Plenary (2 of 2)

- Task Force Comment Review
 - Initiated: Sept 16, 2019
 - Closed: Oct 15, 2019
- Joint Task Force Interim Teleconference Meetings
http://www.ieee802.org/3/ct/public/tf_interim/index.html
 - 15 Aug 2019 – Proposal for Splitting IEEE P802.3ct
 - IEEE P802.3ct – 100 GbE over DWDM System
 - IEEE P802.3cw – 400 GbE over DWDM System
 - 29 Aug 2019
 - Update to proposal to splitting IEEE P802.3ct
 - Motivation of 75 GHz spacing for 400G-ZR

Description	Clause	T	TR	E	ER	Total
Front Matter	0			1		1
Introduction	1	1				1
Mgmt	45	3		1		4
Introduction 40/100	80	4		5		9
PCS	119	1				1
Inverse RS-FEC	152	6		3		9
100GBASE-ZR PMA	153	7		8		15
100GBASE-ZR PMD	154	11		7		18
Total Comments		33	0	25	0	58

Summary – Motions Related to Proposed Project Split

Motion	Description	Results (y/n/a)
6	Move that the IEEE P802.3ct Task Force develop a modification of the IEEE P802.3ct PAR to address “Objectives related to 100 Gb/s operation on a single wavelength capable of at least 80 km over a DWDM system” and create a new IEEE P802.3cw PAR to address “400 Gb/s operation on a single wavelength capable of at least 80 km over a DWDM system.	Motion Passes (21 / 3 / 4)
7	Move to adopt <ul style="list-style-type: none"> • the objectives stated on Slide #4 of dambrosia_3ct_01_0919 for the modified IEEE P802.3ct Project • The objectives stated on Slide #5 of dambrosia_3ct_01_0919 for the IEEE P802.3cw Project 	Motion Passes (25 / 0 / 4)
8	Move to adopt <ul style="list-style-type: none"> • For the modified IEEE P802.3ct PAR <ul style="list-style-type: none"> • The PAR responses in P802_3ct_PAR_110919.pdf • The CSD “Managed Objects”, “Coexistence”, “Broad Market Potential”, “Compatibility”, “Distinct Identity”, “Technical Feasibility”, and “Economic Feasibility” responses, as per dambrosia_3ct_03_0919 • For the new IEEE P802.3cw PAR <ul style="list-style-type: none"> • The PAR responses in P802_3cw_PAR_110919.pdf • The CSD “Managed Objects”, “Coexistence”, “Broad Market Potential”, “Compatibility”, “Distinct Identity”, “Technical Feasibility”, and “Economic Feasibility” responses, as per dambrosia_3ct_05_0919 	Motion Passes (34 / 0 / 1)

Proposed Project Documentation

Proposed IEEE P802.3ct Project Modification

[Proposed IEEE P802.3ct PAR](#)

[Proposed IEEE P802.3ct CSD](#)

[Proposed IEEE P802.3ct Objectives](#)

Proposed IEEE P802.3cw Project

[Proposed IEEE P802.3cw PAR](#)

[Proposed IEEE P802.3cw CSD](#)

[Proposed IEEE P802.3cw Objectives](#)

Task Force Meeting Week Plan

- Wed (8am – 6pm) / Thurs (8am to noon)
 - Respond to comments submitted against IEEE P802.3ct D1.0
 - Respond to comments submitted against submitted PARs
 - Modified IEEE P802.3ct
 - Proposed IEEE P802.3cw
- Hear technical presentations / baseline proposals on 400BASE-ZR
 - Resolution of 75 GHz / 100 GHz spacing

Questions?

Thank you!