

Unapproved Minutes

IEEE P802.3cn / IEEE P802.3ct Joint Task Force Meeting (9/10-9/11)

IEEE 802.3 September 2019 Interim
Indianapolis, IN, USA

Prepared by John D'Ambrosia

All times ET

Location: The Westin Indianapolis, Indianapolis, IN, USA

The meeting called to order at 09:00 am, Sept 10, 2019

Chair noted that the meeting would be run as a joint task force meeting the entire time and reminded the group of the July 2019 motion passed at the WG allowing motions to be taken during any joint meeting between the task forces.

General Introductions were made by participants.

Presentation #1 – Agenda and General Information
Presenter: John D'Ambrosia
URL: http://www.ieee802.org/3/ct/public/19_09/agenda_3cnct_0919.pdf

Motion #1: Move to approve the Joint Task Force Agenda (noted on Page 3)
Moved: Pete Anslow
Second: Peter Stassar
Results: Approved by voice vote without opposition

Motion #2: Move to approve the following minutes –
1. July 2019 -
http://www.ieee802.org/3/ct/public/19_07/minutes_3cnct_01a_0719_unapproved.pdf
2. 8/29 Joint TF Interim Teleconference Meeting -
[http://www.ieee802.org/3/ct/public/tf_interim/19_0829/minutes_3cnct_190829_unapproved.p
df](http://www.ieee802.org/3/ct/public/tf_interim/19_0829/minutes_3cnct_190829_unapproved.pdf)

Moved: Jeff Maki
Second: Peter Stassar
Results: Approved by voice vote without opposition

Chair showed IEEE 802 Participation slide.

Chair reviewed Task Force Decorum slide. Chair asked if there were any press in the room. Nobody identified themselves as representing the press.

Chair reviewed P802.3cn and P802.3ct Task Force information. Chair introduced the two editorial teams

Chair noted attendance tools.

Chair presented the Patent Policy Slides for IEEE-SA meetings.

Chair advised the Task Force of the following:

- IEEE's patent policy is described in Clause 6 of the *IEEE-SA Standards Board Bylaws*;
- Early identification of patent claims which may be essential for the use of standards under development is strongly encouraged;

- There may be Essential Patent Claims of which IEEE is not aware. Additionally, neither IEEE, the WG, nor the WG Chair can ensure the accuracy or completeness of any assurance or whether any such assurance is, in fact, of a Patent Claim that is essential for the use of the standard under development.

Chair noted

- That the foregoing information was provided and that slides 1 through 4 (and this slide 0, if applicable) were shown;
- That the chair or designee provided an opportunity for participants to identify patent claim(s)/patent application claim(s) and/or the holder of patent claim(s)/patent application claim(s) of which the participant is personally aware and that may be essential for the use of that standard

There were no responses to the Chair's Call for Potentially Essential Patents

Chair reviewed Ground rules and the role of the chair.

The Chair reviewed important bylaws, rules, & references, and gave an overview of the IEEE 802.3 Standards Process.

Chair reviewed goals for week –

- Consider comments submitted against IEEE P802.3cn D3.1
- Consider submission IEEE P802.3cn to RevCom
- Resolve Grid Issues
 - End Frequencies
 - 75 GHz / 100 GHz Grid for 400GbE
- Resolve splitting IEEE P802.3ct Project
- Forward 100 GbE Draft to Task Force Comment Review
- Motions & Closing Business

Chair reviewed IEEE P802.3cn D3.1 SA recirculation Ballot results.

Chair reviewed liaisons:

- Incoming to consider -
 - OIF to IEEE 802.3 regarding progress on the OIF 400ZR project
- Chair noted he had asked Steve Trowbridge to generate proposed response. Chair asked if there were any comments about the incoming liaison.
- It was also noted that based on the outcome of the meeting that the Task Force might adopt a version of the draft, based on 100 GbE to begin Task Force Comment Phase. If this occurred, then the group should consider forwarding a draft to ITU-T. Chair asked Steve Trowbridge to have a draft liaison ready for consideration on Wednesday.

Presentation #2 - P802.3cn Chief Editor's Opening Report

Presenter: Pete Anslow

URL: http://www.ieee802.org/3/ct/public/19_09/anslow_3cn_01_0919.pdf

Chair noted during presentation that the minutes for the 8/20 Interim Teleconference Meeting had not been approved. Chair noted that minutes would be considered for approval during the "motions" agenda item on Wednesday.

Comment resolution for 2 comments submitted against D3.1.

Final Responses to comments against D3.1:

URL: http://www.ieee802.org/3/cn/comments/P802d3cn_D3p1_comments_final_ID.pdf

Question was raised as to whether the P802.3cn Task Force seen any data on dispersion. It was not known at the time what data had been seen, but review was taken offline.

Break @ 10:11am

Reconvened @ 10:34am

Presentation #3 - P802.3ct Chief Editor's Opening Report
Presenter: Tom Issenhuth
URL: http://www.ieee802.org/3/ct/public/19_09/issenhuth_3ct_01a_0919.pdf

Tom Issenhuth and editorial team presented Draft 0.1.

Presentation #4 - Manufacturer Input on Frequency Range
Presenter: Matt Schmitt
URL: http://www.ieee802.org/3/ct/public/19_09/schmitt_3ct_01a_0919.pdf

General discussion regarding presentation.

Break @11:59am
Reconvened @ 1:05pm

Presentation #5 - 75 GHz Filter Data in support of 64 channel 400G Base ZR Links
Presenter: John DeAndrea
URL: http://www.ieee802.org/3/ct/public/19_09/deandrea_3ct_01a_0919.pdf

General discussion regarding presentation.

Presentation #6 - Impact of channel count of PMD Clause 154 on black link design and volume manufacturing
Presenter: John DeAndrea
URL: http://www.ieee802.org/3/ct/public/19_09/deandrea_3ct_02b_0919.pdf

Presentation #7 - Impact of 75 GHz filters on 400BASE-ZR black link, 80 km requirement
Presenter: John DeAndrea
URL: http://www.ieee802.org/3/ct/public/19_09/deandrea_3ct_03a_0919.pdf

Presentation #8 - 75-GHz spacing for 400G Ethernet over DWDM for DCI
Presenter: Liang Du
URL: http://www.ieee802.org/3/ct/public/19_09/du_3ct_01b_0919.pdf

D'Ambrosia asked Tom Issenhuth to chair the meeting while he presented. Issenhuth assumed the chair at 2:17pm.

Presentation #9 - Update: Summary Splitting IEEE P802.3ct Project - Proposed Project Documentation Packages
Presenter: John D'Ambrosia
URL: http://www.ieee802.org/3/ct/public/19_09/dambrosia_3ct_01_0919.pdf

Presentation #10 - Update: Proposed Draft PAR Responses - 100 GbE over DWDM PHY Objectives
Presenter: John D'Ambrosia
URL: http://www.ieee802.org/3/ct/public/19_09/dambrosia_3ct_02_0919.pdf

Presentation #11 - Update: Proposed CSD Responses: 100 GbE over DWDM Project (IEEE P802.3ct) Objectives
Presenter: John D'Ambrosia
URL: http://www.ieee802.org/3/ct/public/19_09/dambrosia_3ct_03_0919.pdf

Presentation #12 - Update: Draft PAR Responses: 400 GbE over DWDM PHY Objectives Proposed IEEE 802.3cw Project
Presenter: John D'Ambrosia
URL: http://www.ieee802.org/3/ct/public/19_09/dambrosia_3ct_04_0919.pdf

Presentation #13 - Update: Proposed CSD Responses: - 400 GbE over DWDM Project (IEEE P802.3cw) Objectives
Presenter: John D'Ambrosia
URL: http://www.ieee802.org/3/ct/public/19_09/dambrosia_3ct_05_0919.pdf

D'Ambrosia resumed chairing @ approximately 2:45pm.

Strawpoll #1

- For 100 GbE objective- I would support adopting the following frequency range (based on 100 GHz spacing, 48 channels)
[OIF] 191.4 to 196.1 THz

Results – Yes by voice vote without opposition

Strawpoll #2

- For the grid for 400 GbE objective I would support
 - A. Keeping the currently adopted 100 GHz spacing only
 - B. Add 75 GHz spacing to currently adopted 100 GHz spacing
 - C. Replacing the 100 GHz spacing with 75 GHz spacing
 - D. Need more information
- Results
 - A. 1
 - B. 17
 - C. 6
 - D. 23

There was discussion regarding Strawpoll #2.

Break @ 3:20pm

Reconvened at 4:06pm.

Chair asked Tom Issenhuth to chair the meeting during the following strawpoll to discuss splitting the IEEE P802.3ct project. Issenhuth assumed chairing the meeting at 4:12pm.

Strawpoll #3

- I would support splitting the IEEE P802.3ct project per dambrosia_3ct_01_0919.pdf
- Results
 - Yes - 31
 - No - 7
 - Abstain -16

There was discussion regarding Strawpoll #3.

D'Ambrosia resumed chairing the meeting at 4:54pm.

The editorial team noted that a version of D0.1, which had been reviewed, only addressing the 100 GbE objective was available. Chair asked if there would be any objections to considering this document for adoption on Wednesday, pending Task Force decision to split the P802.3ct project, if the document was uploaded tonight. There were no objections. It was noted that adoption of the document would then allow Task Force Comment Phase to begin.

Break for the day at 5:09pm.

Meeting reconvened at 9:01am, Wed 11-Sept-2019

Chair reviewed the motions for the morning.

Motion #3	Move to approve the minutes from the Aug 20, 2019 IEEE P802.3cn Interim Teleconference Meeting (IEEE P802.3cn comment resolution) <ul style="list-style-type: none">• http://www.ieee802.org/3/cn/public/tf_interim/19_0820/minutes_3cn_190820_unapproved.pdf
Mover	Steve Trowbridge
Second	Pete Anslow
Requirement	Procedural (>50%)
Results	Approved by voice vote without opposition
Motion	Passes

Chair noted that presentations addressing dispersion had been identified from the Study Group phase, and it was noted that this was an issue that the Study Group had to address prior to adopting objectives. The identified presentations had been mailed to the IEEE P802.3cn Task Force reflector.

Prior to motion, chair reviewed CSD responses for IEEE P802.3cn, noted in motion, with Task Force.

Motion #4	Move that the IEEE P802.3cn Task Force re-affirm the CSD responses in https://mentor.ieee.org/802-ec/dcn/18/ec-18-0248-00-ACSD-p802-3cn.pdf and request approval to progress the IEEE P802.3cn draft to RevCom.
Mover	Peter Stassar
Second	John DeAndrea
Requirement	Technical ($\geq 75\%$)
Results	Approved by voice vote without opposition
Motion	Passes

Motion #5	Move to adopt for 100 GbE Objective: 191.4 to 196.1 THz frequency range (based on 100 GHz spacing, 48 channels)
Mover	Jeff Maki
Second	Steve Trowbridge
Requirement	Technical ($\geq 75\%$)
Results	Approved by voice vote without opposition
Motion	Passes

Motion #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.”
Mover	Pete Anslow
Second	Steve Trowbridge
Requirement	Procedural ($>50\%$)
Results	Y: 21 N: 3 A: 4
Motion	Passes

Motion #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 ProjectThe objectives stated on Slide #5 of dambrosia_3ct_01_0919 for the IEEE P802.3cw Project
Mover	Pete Anslow
Second	Peter Stassar
Requirement	Technical ($>75\%$)
Results	Y: 25 N: 0 A: 4
Motion	Passes

David Law, 802.3 WG Chair entered in the PAR responses for the proposed modified IEEE P802.3ct PAR and proposed IEEE P802.3cw PAR into the myProject system and reviewed responses with Task Force. After entering into system Mr. Law reviewed the output with the Task Force.

Chair reviewed the proposed CSD responses with the Task Force.

Motion #8 Move to adopt

- For the modified IEEE P802.3ct PAR
 - 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
 - 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

Mover Pete Anslow
 Second Frank Chang
 Requirement Technical ($\geq 75\%$)
 Results Y; 34 N: 0 A: 1
 Motion Passes

Break @ 10:09am
 Meeting reconvened @ 10:34am

Motion #9 Move to adopt P802.3ct Draft 0.9 to generate Draft 1.0 and circulate for Task Force review

Mover Tom Issenhuth
 Second Peter Stassar
 Requirement Technical ($\geq 75\%$)
 Results Approved by voice vote without opposition
 Motion Passes

Trowbridge presented proposed liaisons and both were reviewed by Task Force

Motion #10 Move that the IEEE P802.3ct Task Force approve:

1. IEEE_802d3_to_ITU_OIF_3ct_0919_draft
2. IEEE_802d3_to_ITU_3ct_0919_draft

- with editorial license granted to the Chair (or his appointed agent) as liaison communications from the IEEE 802.3 Working Group to 1) OIF and ITU-T SG15; and 2) to ITU-T SG15, respectively.

Mover Steve Trowbridge
 Second Pete Anslow
 Requirement Technical ($\geq 75\%$)
 Results Approved by voice vote without opposition
 Motion Passes

Chair reviewed future meetings with Task Force

Attendance Strawpoll

- For IEEE P802.3cn / P802.3ct Meetings at the Nov 2019 Plenary
 - I will attend – 22
 - I may attend – 10
 - I won't attend – 4
- For IEEE P802.3cn / P802.3ct Meetings at the Jan 2020 Interim
 - I will attend – 17
 - I may attend – 16
 - I won't attend – 4

Chair noted he would be working with editorial team to initiate the Task Force Comment Review of IEEE P802.3ct Draft 1.0.

Motion #11 Motion to adjourn
 Mover Matt Schmitt
 Second Steve Trowbridge
 Requirement Procedural (>50%)
 Results Approved by voice vote without opposition
 Motion Passes

Meeting adjourned @ 11:13am

Attendees

Last Name	First Name	Employer	Affiliations	Tues	Wed
Abbott	John	Corning	Corning	x	
Anslow	Pete	Ciena Corporation	Ciena Corporation	x	x
Baldwin	Thananya	Ixia	Ixia	x	
Braun	Ralf-Peter	Deutsche Telekom	Deutsche Telekom	x	x
Brooks	Paul	Viavi Solutions	Viavi Solutions	x	
Bruckman	Leon	Huawei	Huawei	x	x
Butter	Adrian	Avago Semi	Avago Semi	x	
Chang	Frank	Source Photonics	Source Photonics	x	x
Chen	David	AOI	AOI	x	
Choudhury	Mabud	OFS	OFS	x	
Coffey	Joseph	CommsScope	Commscope	x	x
D'Ambrosia	John	Futurewei, subsidiary of Huawei	Futurewei, subsidiary of Huawei	x	x
Dawe	Piers	Mellanox	Mellanox	x	
DeAndrea	John	Finisar	Finisar	x	x
Du	Liang	Google	Googel	x	x
Estes	Dave	Spirent Communications	Spirent Communications	x	
Ferretti	Vincent	Corning	Corning		x
Geng	Limin	Huawei	Huawei	x	
Ghiasi	Ali	Ghiasi Quantum	Ghiasi Quantum, Inphi	x	
Gorshe	Steve	Microchip	Microchip	x	x
He	Xiang	Huawei	Huawei	x	x

Holden	Brian	Kandou Bus	Kandou Bus	x	
Horner	Rita	Synopsys	Synopsys	x	
Isono	Hideki	Fujitsu Optical Components	Fujitsu Optical Components	x	x
Issenhuth	Tom	Issenhuth Consulting	Issenhuth Consulting, Huawei	x	x
Jackson	Kenneth	Sumitomo	Sumitomo	x	x
Johnson	John	Broadcom	Broadcom	x	x
Kareti	Upen Reddy	Cisco	Cisco	x	
Kimber	Mark	Semtech	Semtech	x	
Kolesar	Paul	CME Consulting	CommScope	x	
Law	David	HPE	HPE		x
LeCheminant	Greg	Keysight Technologies	Keysight Technologies	x	x
Lee	Sylvanus	Leviton	Leviton	x	
Lewis	David	Lumentum	Lumentum	x	
Liu	Hai-Feng	Intel	Intel	x	
Liu	Karen	Lightwave Logic	Lightwave Logic	x	
Lusted	Kent	Intel	Intel	x	
Maj	Tomas	Inphi	Inphi	x	x
Maki	Jeffery	Juniper Networks	Juniper Networks	x	x
Malicoat	David	Malicoat Networking Solutions	Malicoat Networking Solutions / Senko	x	
Maniloff	Eric	Ciena	Ciena	x	x
Nicholl	Gary	Cisco	Cisco	x	
Nicholl	Shawn	Xilinx	Xilinx	x	
Niering	Ray	Cisco	Cisco	x	x
Nowell	Mark	Cisco	Cisco	x	x
Ofelt	David	Juniper Networks	Juniper Networks	x	
Ogawa	Dalsake	NTT Electronics	NTT Electronics	x	
Pepper	Gerald	Ixia	Ixia	x	
Pham	Phong	US Conec Ltd	US Conec Ltd		x
Piehler	David	Dell EMC	Dell EMC	x	
Pittala	Fabio	Huawei	Huawei	x	x
Pozzebon	Dino	Microchip	Microchip	x	
Schmitt	Matt	Cablelabs	Cablelabs	x	x
Sekel	Steve	Keysight Technologies	Keysight Technologies	x	

She	Qingya	Fujitsu	Fujitsu	x	x
Shuai	Jialong	Huawei	Huawei		x
Sluyski	Mike	Acacia Communications	Acacia Acommunications	x	
Sommers	Scott	Molex	Molex	x	
Sorbara	Massimo	Global Foundries	Global Foundries	x	x
Sprague	Ted	Infinera	Infinera	x	x
Stassar	Peter	Huawei	Huawei	x	x
Swanson	Steve	Corning	Corning	x	
Tailor	Bharat	Semtech Corp	Semtech Corp	x	
Takahara	Tomoo	Fujitsu	Fujitsu	x	x
Terada	Masaru	OFS	OFS	x	x
Trowbridge	Steve	Nokia	Nokia	x	x
Ulrichs	Ed	Source Photonics	Source Photonics		x
Wang	Roy	Hewlett Packard Enterprise	Hewlett Packard Enterprise	x	
Welch	Brian	Cisco	Cisco	x	
Xu	Yu	Huawei	Huawei		x
Yamamoto	Shuto	NTT	NTT	x	x
Young	James	CommScope	CommScope	x	x
Zhuang	Yan	Huawei	Huawei	x	