

Unapproved Minutes

IEEE P802.3cn / IEEE P802.3ct Joint Task Force Meeting (3/11 – 3/12) IEEE P802.3cn Task Force Meeting (3/12) IEEE P802.3ct Task Force Meeting (3/12)

Plenary Meeting

Prepared by John D'Ambrosia & David Lewis

All times PT

Location: Fairmont Hotel Vancouver, Vancouver, BC, Canada

IEEE P802.3cn / IEEE P802.3ct Joint Task Force Meeting

The meeting called to order at 1:10pm, March 11, 2019

Chaired by John D'Ambrosia

D'Ambrosia explained how the meetings would be run –

- IEEE P802.3cn Task Force will have joint meeting with IEEE P802.3ct Task Force.
- The IEEE P802.3cn Task Force will meet Tuesday @ 1pm (Note – Task Force meeting will happen no earlier than this time, but may be delayed due to schedule.)
- The joint task force meeting will also be addressed in the IEEE P802.3ct agenda file
- Joint Task Force Meeting, P802.3cn, P802.3ct Task Force meetings will adjourn by Tues 6pm

D'Ambrosia explained that the joint task force portion of the meeting was covered in both agenda decks for the two task forces.

General Introductions were made by participants.

Presentation #1 – Agenda and General Information
IEEE P802.3cn Task Force Meeting & Joint Task Force Meeting with IEEE P802.3ct Task Force
Presenter: John D'Ambrosia, Futurewei, Subsidiary of Huawei
URL: http://www.ieee802.org/3/cn/public/19_03/agenda_3cn_01a_0319.pdf

Motion #1: Move to approve the Joint Task Force Agenda (noted on Page 3 of agenda_3cn_01a_0319.pdf)
Moved by: Steve Trowbridge
Second by: Pavel Zivny
Results: Approved by voice vote without opposition

Chair asked if there were any press in the room. Nobody identified themselves as representing the press.

Chair showed IEEE 802 Participation slide.

Chair reviewed 802.3cn and 802.3ct Task Force information. Chair introduced the two editorial teams. Chair noted he is still looking for a volunteer to be Chief Editor for the IEEE P802.3cn Task Force.

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 -

- Joint Task Force Meeting between P802.3cn and P802.3ct Task Forces
 - Consider comments submitted against D1.0
 - Hear 7 (.3ct) technical presentations / baseline proposals
 - Hear 1 (.3cn) late technical presentation
- P802.3cn Task Force Meeting – Tues 1pm to 2pm
 - Motions & Closing Business
 - Approve Generation of D2.0
 - Request to 802.3 to proceed to WG Ballot
- P802.3ct Task Force Meeting – Tues 2pm to 6pm
 - Additional time for .3ct presentations / strawpolls
 - Motions & Closing Business

Chair reviewed liaison from OIF received at time of meeting:

- [OIF to IEEE 802.3 regarding progress on the 400ZR Interop Project Attachment](#) (Password protected)

Chair noted that proposed liaison would be generated based on meeting results and would be considered at closing business of the IEEE P802.3ct meeting on Tuesday for review.

Chair reviewed Task Force Ad Hoc meetings of the two task forces.

- IEEE P802.3cn
 - Feb 7, 2019 (Note – this ad hoc call addressed topic matter related to IEEE P802.3ct prior to the approval of the P802.3ct PAR): http://www.ieee802.org/3/cn/public/adhoc/19_0207/index.html
 - Addressed test metrics/methods coherent Tx, Update on 100G Extender
- IEEE P802.3ct
 - Feb 14, 2019: http://www.ieee802.org/3/ct/public/adhoc/19_0214/index.html
 - Addressed Inverse RS-FEC Baseline Proposal
 - Feb 21, 2019: http://www.ieee802.org/3/ct/public/adhoc/19_0221/index.html
 - Review of Industry Standards WDM channel maps and recommendation to IEEE, 400GBASE-ZR Optical Specs

Chair reviewed the schedule for the joint task force meeting, and noted the start times for the IEEE P802.3cn and IEEE P802.3ct Task Force meetings.

Chair noted he had received late presentation from Frank Chang related to IEEE P802.3cn, but not related to any comments submitted against D1.0. There were no objections to hearing the presentation after all presentations were heard.

Presentation #2 - P802.3cn Chief Editor's Report
Presenter: Pete Anslow
URL: http://www.ieee802.org/3/cn/public/19_03/anslow_3cn_01_0319.pdf

Time: 1:57 pm
Comments against IEEE P802.3cn D1.0 considered.
Final Responses to comments against D1.0:
http://www.ieee802.org/3/cn/comments/P802d3cn_D1p0_comments_final_CI.pdf

Time: 2:07 pm

Presentation #3 - P802.3ct Editors' Report
Presenter: Pete Anslow
URL: http://www.ieee802.org/3/ct/public/19_03/anslow_3ct_01_0319.pdf

Presentation #4 - Inverse RS-FEC Baseline Proposal
Presenter: Gary Nicholl
URL: http://www.ieee802.org/3/ct/public/19_03/nicholl_3ct_01a_0319.pdf

General Discussion

Presentation #5 - Toward Baseline for 400GBASE-ZR Optical Specs
Presenter: Ilya Lyubomirsky
URL: http://www.ieee802.org/3/ct/public/19_03/lyubomirsky_3ct_01a_0319.pdf

General Discussion

It was noted that the ITU-T had data on multi-vendor test results on transmitter maximum spectral excursion performance. Chair asked Peter Stassar to generate proposed liaison draft to ITU-T requesting this information, which would be considered at the IEEE P802.3ct Task Force meeting.

Break: 3:15pm
Reconvened: 3:40pm

Presentation #6 - Baseline considerations for 100G and 400G DWDM objectives
Presenter: Peter Stassar
URL: http://www.ieee802.org/3/ct/public/19_03/stassar_3ct_01_0319.pdf

General Discussion

Chair announced he had reserved Thursday from 10am to noon ET for ad hoc calls for both P802.3cn and P802.ct Task Forces.

Presentation #7 - Updated Review of Industry Standard Channel Maps
Presenter: John DeAndrea
URL: http://www.ieee802.org/3/ct/public/19_03/deandrea_3ct_01a_0319.pdf

General Discussion

Presentation #8 - Channel Compliant Bandwidth Mask Considerations for 100 GHz spaced 100G and 400G links
Presenter: John DeAndrea
URL: http://www.ieee802.org/3/ct/public/19_03/deandrea_3ct_02_0319.pdf

General Discussion

Break for day at ≈ 5:05 pm.

Meeting reconvened 9:02am, March 12, 2019

Chair showed IEEE 802 Participation slide.

Chair asked if there were any objections to hearing new material in Schmitt presentation. There were no objections.

Presentation #8 - Optical Power and OSNR Comparison and Proposal for 100G Objective
Presenter: Matt Schmitt
URL: http://www.ieee802.org/3/ct/public/19_03/schmitt_3ct_01a_0319.pdf

General Discussion

Break at 10:03pm
Reconvened at 10:24pm

Presentation #9 - EVM_{RMS} Measurement Update
Presenter: Pete Anslow
URL: http://www.ieee802.org/3/ct/public/19_03/anslow_3ct_02_0319.pdf

General Discussion

Presentation #10 - 400GBASE-ER8 QDD Module Tests for Reaches of 40/50km
Presenter: Frank Chang
URL: http://www.ieee802.org/3/cn/public/19_03/chang_3cn_01_0319.pdf

General Discussion

Break for lunch at 11:45pm

IEEE P802.3cn Task Force Meeting

The meeting called to order at 1:30pm, March 12, 2019

Chaired by John D'Ambrosia

Motion #1: Move to approve the P802.3cn Task Force Agenda (noted on Page 4 of agenda_3cn_01a_0319.pdf)

Moved by: Frank Chang

Second by: Pete Anslow

Results: Approved by voice vote without opposition

Chair showed IEEE 802 Participation Slide

Motion #2: Motion to approve minutes
Jan Interim

- http://www.ieee802.org/3/cn/public/19_01/minutes_3cn_01_0119_unapproved.pdf

Feb 7, 2019 Ad hoc Call (Note – this ad hoc call addressed topic matter related to IEEE P802.3ct prior to the approval of the P802.3ct PAR)

- http://www.ieee802.org/3/cn/public/adhoc/19_0207/minutes_3cn_190207_unapproved.pdf

Moved by: Pete Anslow

Second by: Peter Stassar

Results: Approved by voice vote without opposition

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

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

Motion #3: Move to:

- Approve Task Force review Draft 1.0 closed comments
- Request that the IEEE 802.3 WG progress the draft to WG Ballot

Moved by: Pete Anslow

Second by: Peter Stassar

Motion: Technical ($\geq 75\%$)

Results: Approved by voice vote without opposition.

Meeting broke at 1:45pm

IEEE P802.3ct Task Force Meeting

The meeting called to order at 2:00pm, March 12, 2019

Chaired by David Law

Chair appointed David Lewis Recording Secretary

Motion #1: Confirm John D'Ambrosia as the IEEE P802.3ct 100 Gb/s and 400 Gb/s over DWDM Systems Task Force Chair.

Moved by: Steve Trowbridge

Second by: Pete Anslow

Results All (y/n/a): 36 / 0 / 0

D'Ambrosia chaired meeting

Presentation #1 – Agenda and General Information
IEEE P802.3ct Task Force Meeting & Joint Task Force Meeting with IEEE P802.3cn Task Force

Presenter: John D'Ambrosia, Futurewei, Subsidiary of Huawei

URL: http://www.ieee802.org/3/ct/public/19_03/agenda_3ct_01a_0319.pdf

Motion #2: Motion to approve agenda (noted on Page 4 of agenda_3ct_01a_0319.pdf)

Moved by: Pete Anslow

Second by: Pavel Zivny

Results: Approved by voice vote without opposition

Chair showed IEEE 802 Participation Slide

Motion #3: Motion to approve minutes

- Feb 14 -

http://www.ieee802.org/3/ct/public/adhoc/19_0214/minutes_3ct_190214_approved.pdf

- Feb 21 -

http://www.ieee802.org/3/ct/public/adhoc/19_0221/minutes_3ct_a_190221_unapproved.pdf

Moved by: Steve Trowbridge

Second by: Pete Anslow

Results: Approved by voice vote without opposition

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

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

Presentation #2 – Motions

Presenter: John D'Ambrosia, Futurewei, Subsidiary of Huawei

URL: http://www.ieee802.org/3/ct/public/19_03/motions_3ct_0319.pdf

Chair reviewed summary of .3ct Related Approved Motions Adopted in .3cn (See Slide #3)

Motion #4: Move to approve all motions noted on Slide #3 of motions_3ct_0319

Moved by: Matt Schmitt

Second by: John DeAndrea

Motion: Technical ($\geq 75\%$)

Results: Approved by voice vote without opposition

Motion #5: Move to adopt the Inverse RS-FEC sublayer baseline as proposed in slide 7 of nicholl_3ct_01a_0319
Moved by: Gary Nicholl
Second by: Shawn Nicholl
Motion: Technical ($\geq 75\%$)
Results All (y/n/a): 30 / 0 / 5

General discussion on motion

Motion #6: Move to adopt 100 GHz channel spacing for 100 GbE and 400 GbE 80 km objectives
Moved by: Pete Anslow
Second by: Peter Stassar
Motion: Technical ($\geq 75\%$)
Results All (y/n/a): 30 / 0 / 6

General discussion on motion.

Strawpoll#1 I support the following recommendations:

- Adopt start channel at 191.3 THz
- Adopt end channel at 196.1 THz

Results All Yes: 12
No: 1
Need More Information: 17
Abstain: 5

Break @ 3pm

Meeting reconvened at 3:25pm

Chair asked those individuals who needed more information on Strawpoll #1 for input on what they were looking for. There was group discussion. Chair summarized discussion in the following manner:

- What are cost factors for deploying around end frequencies
- This is new territory for Ethernet, and some basis for the Task Force decision should be provided.

Strawpoll#2 I support the following recommendations:

- Adopt start channel at 191.5 THz
- Adopt end channel at 196.1 THz

Results All Yes: 11
No: 0
Need More Information: 10
Abstain: 9

General discussion regarding the strawpoll.

Proposed liaison response to the OIF (provided by D'Ambrosia / Trowbridge) and liaison to ITU-T (provided by Stassar) were reviewed by the P802.3ct Task Force.

Motion #7: Move that the IEEE P802.3ct Task Force approve:

- IEEE_802d3_to_ITU_3ct_0319_draft
- IEEE_802d3_to_OIF_3ct_0319_draft

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

Moved by: Steve Trowbridge
Second by: Peter Stassar
Motion: Technical ($\geq 75\%$)
Results: Approved by voice vote without opposition

Attendance Poll: May Interim Attendance
Results All: I will attend – 25
I may attend – 6
I won't attend – 5

Motion Adjourn joint P802.3cn/ P802.3ct Joint Task Force, P802.3cn Task Force, and
P802.3ct Task Force meetings.
Moved by Matt Schmitt
Second by: Pavel Zivny
Results: Approved by voice vote without opposition

Meetings adjourned at 4:50pm.

Meeting Attendees

IEEE P802.3cn / IEEE P802.3ct Joint Task Force Meeting (3/11 – 3/12)

IEEE P802.3cn Task Force Meeting (3/12)

IEEE P802.3ct Task Force Meeting (3/12)

Last Name	First Name	Employer	Affiliations	Mon	Tues
Anslow	Pete	Ciena Corporation	Ciena Corporation	x	x
Baca	Rich	Microsoft	Microsoft	x	x
Bernstein	Gary	Leviton	Leviton		x
Brooks	Paul	Viavi Solutions	Viavi Solutions	x	
Burrell	Gary	Elenion Technologies	Elenion Technologies	x	x
Chang	Frank	Source Photonics	Source Photonics	x	x
Choudhury	Mabud	OFS	OFS		x
D'Ambrosia	John	Futurewei, subsidiary of Huawei	Futurewei, subsidiary of Huawei	x	x
DeAndrea	John	Finisar	Finisar	x	x
Ferretti	Vincent	Corning	Corning	x	x
Ghiasi	Ali	Ghiasi Quantum, Ghiasi Quantum / Huawei	Ghiasi Quantum, Ghiasi Quantum / Huawei	x	x
Gustlin	Mark	Cisco	Cisco	x	
He	Xiang	Huawei	Huawei	x	
Hiraki	Kukia	Yamaichi	Yamaichi	x	
Horner	Rita	Synopsys	Synopsys	x	
Ishibe	Kazuhiko	Anristu	Anristu	x	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	
Klempa	Mike	UNH-IOL	UNH-IOL	x	
Knittle	Curtis	Cablelabs	Cablelabs	x	x
Kolesar	Paul	CME Consulting	CommScope		x
LeCheminant	Greg	Keysight Technologies	Keysight Technologies	x	x
Lewis	David	Lumentum	Lumentum	x	x
Lim	Jane	Cisco	Cisco	x	

Liu	Hai-Feng	Intel	Intel	x	x
Lu	Yuchun	Huawei	Huawei	x	
Lyubomirsky	Ilya	Inphi	Inphi	x	x
Maki	Jeffery	Juniper Networks	Juniper Networks	x	x
Malicoat	David	Malicoat Networking Solutions / Senko	Malicoat Networking Solutions / Senko	x	
Manon	Dur	Mellanox	Mellanox	x	
Marques	Flavio	Furukawa Electric	Furukawa Electric		x
Nakamoto	Edward	Spirent Communications	Spirent Communications	x	
Nicholl	Gary	Cisco	Cisco	x	x
Nicholl	Shawn	Xilinx	Xilinx	x	x
Nowell	Mark	Cisco	Cisco	x	x
Ofelt	David	Juniper Networks	Juniper Networks	x	
Okabe	Ryo	Fujitsu Optical Components	Fujitsu Optical Components	x	x
Parthasarathay	Vasudevan	Broadcom	Broadcom		x
Pham	Phong	US Conec Ltd	US Conec Ltd	x	
Piehler	David	Dell EMC	Dell EMC	x	
Pimpinella	Rick	Panduit Corp.	Panduit Corp.		x
Pozzebon	Dino	Microsemi	Microsemi	x	
Sambasivan	Sam	AT&T	AT&T	x	
Schmitt	Matt	Cablelabs	Cablelabs	x	x
Sekel	Steve	Keysight Technologies	Keysight Technologies	x	
Shen	Qingya	Fujitsu	Fujitsu	x	x
Shuai	Jialong	Huawei	Huawei		x
Sluyski	Mike	Acacia Communications	Acacia Acommunications	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 Laboratories	Fujitsu Laboratories	x	x
Terada	Masaru	OFS	OFS	x	x
Toyserkani	Pirooz	Cisco	Cisco	x	
Tracy	Nathan	TE Connectivity	TE Connectivity	x	
Trowbridge	Steve	Nokia	Nokia	x	x

Ulrichs	Ed	Source Photonics	Source Photonics	x	x
Xu	Yu	Huawei	Huawei	x	x
Yamamoto	Shuto	NTT	NTT	x	x
Young	James	CommScope	CommScope		x
Zhang	Bodo	Inphi	Inphi	x	x
Zhang	Kevin	IDT	IDT	x	
Zivny	Pavel	Tektronix	Tektronix	x	x