

# IEEE 802.3 Working Group July 2019 Plenary Week

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Web site: [www.ieee802.org/3](http://www.ieee802.org/3)

# IEEE 802.3 Maintenance

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## Maintenance closing report

[http://www.ieee802.org/3/minutes/jul19/0719\\_maint\\_close\\_report.pdf](http://www.ieee802.org/3/minutes/jul19/0719_maint_close_report.pdf)

## Activities

Review of outstanding Maintenance Requests

Progressed IEEE P802.3cv Power over Ethernet (Maintenance #15) PAR

Approved by IEEE 802 Executive Committee

Submitted to September 2019 NesCom agenda

## Next meeting during September 2019 interim meeting series

Full details at: <http://www.ieee802.org/3/interims/>

## Web page

<http://www.ieee802.org/3/maint/index.html>

# IEEE P802.3ca 25 Gb/s and 50 Gb/s Ethernet Passive Optical Networks Task Force

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## Task Force closing report

[http://www.ieee802.org/3/minutes/jul19/0719\\_ca\\_close\\_report.pdf](http://www.ieee802.org/3/minutes/jul19/0719_ca_close_report.pdf)

## Progress

IEEE P802.3ca D2.0 initial Working Group ballot comment resolution

Completed responses to 470 comments submitted

## Next steps

Conduct first Working Group recirculation ballot on IEEE P802.3ca draft D2.1

## Next meeting during September 2019 interim meeting series

Full details at: <http://www.ieee802.org/3/interims/>

## Web page:

<http://www.ieee802.org/3/ca/index.html>

# IEEE P802.3cg 10 Mb/s Single Pair Ethernet Task Force

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## Task Force closing report

[http://www.ieee802.org/3/minutes/jul19/0719\\_cg\\_close\\_report.pdf](http://www.ieee802.org/3/minutes/jul19/0719_cg_close_report.pdf)

## Progress

IEEE P802.3cg D3.1 first Standards Association recirculation ballot comment resolution

Completed responses to 277 comments plus 6 late comments submitted

## Next steps

Conduct IEEE P802.3cg D3.2 second Standards Association recirculation ballot

## Next meeting is August 2019 IEEE P802.3cg interim

Full details at: <http://www.ieee802.org/3/interims/>

## Web page:

<http://www.ieee802.org/3/cg/index.html>

# IEEE P802.3ch Multi-Gig Automotive Ethernet PHY Task Force

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## Task Force closing report

[http://www.ieee802.org/3/minutes/jul19/0719\\_ch\\_close\\_report.pdf](http://www.ieee802.org/3/minutes/jul19/0719_ch_close_report.pdf)

## Progress

IEEE P802.3ch D2.0 initial Working Group ballot comment resolution

Completed responses to 290 comments submitted

## Next steps

Conduct first Working Group recirculation ballot on IEEE P802.3ch draft D2.1

## Next meeting during September 2019 interim meeting series

Full details at: <http://www.ieee802.org/3/interims/>

## Web page:

<http://www.ieee802.org/3/ch/index.html>

# IEEE P802.3ck 100 Gb/s, 200 Gb/s, and 400 Gb/s Electrical Interfaces Task Force.

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## Task Force closing report

[http://www.ieee802.org/3/minutes/jul19/0719\\_ck\\_close\\_report.pdf](http://www.ieee802.org/3/minutes/jul19/0719_ck_close_report.pdf)

## Progress

### Key Technical Progress

Adopted baselines for reference receiver for backplane and mated test fixture for copper cables

## Next steps

Continue baseline selection to satisfy the project objectives

## Next meeting during September 2019 interim meeting series

Full details at: <http://www.ieee802.org/3/interims/>

## Web page:

<http://www.ieee802.org/3/ck/index.html>

# IEEE P802.3cm 400 Gb/s over Multimode Fiber Task Force

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## Task Force closing report

[http://www.ieee802.org/3/minutes/jul19/0719\\_cm\\_close\\_report.pdf](http://www.ieee802.org/3/minutes/jul19/0719_cm_close_report.pdf)

## Progress

IEEE P802.3cm D2.1 first Working Group recirculation ballot comment resolution

Completed responses to 19 comments submitted

Responses did not require a further recirculation ballot

Approval granted to proceed to Standards Association ballot

## Next steps

Conduct IEEE P802.3cm D3.0 initial Standards Association ballot

Next meeting during September 2019 interim meeting series

Full details at: <http://www.ieee802.org/3/interims/>

## Web page:

<http://www.ieee802.org/3/cm/index.html>

# IEEE P802.3cn 50 Gb/s, 200 Gb/s, and 400 Gb/s over Single-Mode Fiber Task Force

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## Task Force closing report

[http://www.ieee802.org/3/minutes/jul19/0719\\_cn\\_close\\_report.pdf](http://www.ieee802.org/3/minutes/jul19/0719_cn_close_report.pdf)

## Progress

IEEE P802.3cn D2.1 first Working Group recirculation ballot comment resolution

Completed responses to 10 comments submitted

Responses did not require a further recirculation ballot

Approval granted to proceed to Standards Association ballot

## Next steps

Conduct IEEE P802.3cn D3.0 initial Standards Association ballot

Next meeting is August 2019 IEEE P802.3cn contingent teleconference interim

Full details at: <http://www.ieee802.org/3/interims/>

## Web page:

<http://www.ieee802.org/3/cn/index.html>



# IEEE P802.3cp Bidirectional 10 Gb/s, 25 Gb/s, and 50 Gb/s Optical Access PHYs Task Force

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Task Force closing report

[http://www.ieee802.org/3/minutes/jul19/0719\\_cp\\_close\\_report.pdf](http://www.ieee802.org/3/minutes/jul19/0719_cp_close_report.pdf)

Progress

- Considered 4 contributions

- Performed comment resolution on draft D0.2

- Built consensus on non-engineered 40km power budget

Next steps

- Finalize 40km loss budget and wavelength plans for all speeds and budgets

Next meeting during September 2019 interim meeting series

Full details at: <http://www.ieee802.org/3/interims/>

Web page:

<http://www.ieee802.org/3/cp/index.html>

# IEEE P802.3cq Power over Ethernet over 2 Pairs (Maintenance #13) Task Force

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## Task Force closing report

[http://www.ieee802.org/3/minutes/jul19/0719\\_cq\\_close\\_report.pdf](http://www.ieee802.org/3/minutes/jul19/0719_cq_close_report.pdf)

## Progress

IEEE P802.3cq D2.1 first Working Group recirculation ballot comment resolution

Completed responses to 5 comments submitted

Responses did not require a further recirculation ballot

Approval granted to proceed to Standards Association ballot

## Next steps

Conduct IEEE P802.3cq D3.0 initial Standards Association ballot

Next meeting during September 2019 interim meeting series

Full details at: <http://www.ieee802.org/3/interims/>

## Web page:

<http://www.ieee802.org/3/cq/index.html>

# IEEE P802.3cr Isolation (Maintenance #14) Task Force

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## Task Force closing report

[http://www.ieee802.org/3/minutes/jul19/0719\\_cr\\_open\\_report.pdf](http://www.ieee802.org/3/minutes/jul19/0719_cr_open_report.pdf)

## Progress

Baseline text adopted for all outstanding items

Agreed to generate IEEE P802.3cr D1.0 for initial Task Force review

## Next steps

Conduct IEEE P802.3cr D1.0 initial Task Force review

## Next meeting during September 2019 interim meeting series

Full details at: <http://www.ieee802.org/3/interims/>

## Web page:

<http://www.ieee802.org/3/cr/index.html>

# IEEE P802.3cs Increased-reach Ethernet optical subscriber access (Super-PON) Task Force

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## Task Force closing report

[http://www.ieee802.org/3/minutes/jul19/0719\\_cs\\_close\\_report.pdf](http://www.ieee802.org/3/minutes/jul19/0719_cs_close_report.pdf)

## Progress

Considered 7 contributions

Approved updated black link parameters

## Next steps

Continue baseline selection to satisfy the project objectives

## Next meeting during September 2019 interim meeting series

Full details at: <http://www.ieee802.org/3/interims/>

## Web page:

<http://www.ieee802.org/3/cs/index.html>

# IEEE P802.3ct 100 Gb/s and 400 Gb/s over DWDM systems Task Force

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## Task Force closing report

[http://www.ieee802.org/3/minutes/jul19/0719\\_ct\\_close\\_report.pdf](http://www.ieee802.org/3/minutes/jul19/0719_ct_close_report.pdf)

## Progress

### Baselines

Updated the 100G FEC and Frame Format baseline, adopted parameter list values for 100GBASE-ZR, adopted parameter list for 400GBASE-ZR PMD specification

### Discussions

Interest in adding 75GHz spacing for 400 Gb/s Ethernet grid

Potential impact on overall project schedule

Potential schedule issues if splitting IEEE P802.3ct (by rate) were pursued

## Next steps

Continue baseline selection to satisfy the project objectives

## Next meeting during September 2019 interim meeting series

Full details at: <http://www.ieee802.org/3/interims/>

## Web page:

<http://www.ieee802.org/3/ct/index.html>

# IEEE P802.3cu 100 Gb/s and 400 Gb/s over SMF at 100 Gb/s per Wavelength Task Force

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Task Force closing report

[http://www.ieee802.org/3/minutes/jul19/0719\\_cu\\_close\\_report.pdf](http://www.ieee802.org/3/minutes/jul19/0719_cu_close_report.pdf)

## Progress

11 technical contributions were made

7 Motions and 4 Straw Polls were taken.

Final (400 Gb/s @ 10 km) baseline still unadopted

Contentious issue is on wavelength grid (CWDM vs LAN-WDM)

Technical refinement was made to the 3 currently adopted baselines

Continue baseline selection to satisfy the project objectives

## Next steps

Continue baseline selection to satisfy the project objectives

Next meeting during September 2019 interim meeting series

Full details at: <http://www.ieee802.org/3/interims/>

Web page:

<http://www.ieee802.org/3/cu/index.html>

# IEEE 802.3 Greater than 10 Gb/s Automotive Ethernet Electrical PHYs Study Group

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## Study Group closing report

[http://www.ieee802.org/3/minutes/jul19/0719\\_autom\\_b10G\\_close\\_report.pdf](http://www.ieee802.org/3/minutes/jul19/0719_autom_b10G_close_report.pdf)

## Progress

### Presentations subjects

PAR, Criteria for Standards Development (CSD) and Project Objectives draft

Adopted 9 objectives with more to come#

Two presentations on technical feasibility of STP cable

Presentation on network topologies

Discussed the need for asymmetric data rates

## Next steps

Continue development of PAR, CSD and Project Objectives

## Next meeting during September 2019 interim meeting series

Full details at: <http://www.ieee802.org/3/interims/>

## Web page:

<http://ieee802.org/3/B10GAUTO/index.html>

# Automotive optical Multi-Gig call for interest

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Automotive optical Multi-Gig call for interest closing report

[http://ieee802.org/3/minutes/jul19/0719\\_auto\\_opt\\_multiG\\_close\\_report.pdf](http://ieee802.org/3/minutes/jul19/0719_auto_opt_multiG_close_report.pdf)

Study Group formation approved

IEEE 802.3 Multi Gigabit Automotive PHY Optical Study Group

The scope of the Study Group is to develop a Project Authorization Request (PAR) and Criteria for Standards Development (CSD) responses for Multi Gigabit Automotive Optical PHY

First Study Group meeting during the September 2019 interim meeting series

Full details at: <http://www.ieee802.org/3/interims/>



# Improving PTP Timestamping Accuracy on Ethernet Interfaces call for interest

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Improving PTP Timestamping Accuracy on Ethernet Interfaces call for interest closing report

[http://ieee802.org/3/minutes/jul19/0719\\_timestamp\\_close\\_report.pdf](http://ieee802.org/3/minutes/jul19/0719_timestamp_close_report.pdf)

Study Group formation approved

IEEE 802.3 Improving PTP Timestamping Accuracy on Ethernet Interfaces Study Group

The scope of the Study Group is to develop a Project Authorization Request (PAR) and Criteria for Standards Development (CSD) responses for Improving PTP Timestamping Accuracy on Ethernet Interfaces

First Study Group meeting during the September 2019 interim meeting series

Full details at: <http://www.ieee802.org/3/interims/>

# 10 Mb/s Single Pair Ethernet Multidrop Enhancements call for interest

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10 Mb/s Single Pair Ethernet Multidrop Enhancements call for interest closing report

[http://iee802.org/3/minutes/jul19/0719\\_multidrop\\_close\\_report.pdf](http://iee802.org/3/minutes/jul19/0719_multidrop_close_report.pdf)

Study Group formation approved

IEEE 802.3 10 Mb/s Single Pair Ethernet Multidrop Enhancements Study Group

The scope of the Study Group is to develop a Project Authorization Request (PAR) and Criteria for Standards Development (CSD) responses for 10 Mb/s Single Pair Ethernet Multidrop Enhancements

First Study Group meeting during the September 2019 interim meeting series

Full details at: <http://www.ieee802.org/3/interims/>

# IEEE 802.3 Officers

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IEEE 802.3 Chair: David Law <dlaw@hpe.com>

IEEE 802.3 Vice Chair: Adam Healey <adam.healey@broadcom.com>

IEEE 802.3 Secretary: Pete Anslow <panslow@ciena.com>

IEEE 802.3 Executive Secretary: Steve Carlson <scarlson@ieee.org>

IEEE 802.3 Treasurer: Valerie Maguire <valerie\_maguire@siemon.com>

## **IEEE 802.3 Task Force chairs**

IEEE P802.3ca 25 Gb/s, and 50 Gb/s EPON: Curtis Knittle <c.knittle@cablelabs.com>

IEEE P802.3cg 10 Mb/s Single Pair Ethernet: George Zimmerman <george@cmephyconsulting.com>

IEEE P802.3ch Multi-Gig Automotive Ethernet PHY: Steve Carlson <scarlson@ieee.org>

IEEE P802.3ck 100 Gb/s, 200 Gb/s, and 400 Gb/s Electrical Interfaces: Elizabeth Kochuparambil <edonnay@cisco.com>

IEEE P802.3cm 400 Gb/s over Multimode Fiber: Robert Lingle <rlingle@ofsoptics.com>

IEEE P802.3cn 50 Gb/s, 200 Gb/s, and 400 Gb/s over greater than 10 km of SMF: John D'Ambrosia <jdambrosia@ieee.org>

IEEE P802.3cp Bidirectional 10 Gb/s, 25 Gb/s and 50 Gb/s Optical Access PHYs: Frank Effenberger <frank.effenberger@huawei.com>

IEEE P802.3cq Power over Ethernet over 2 Pairs (Maintenance #13) Task Force: Chad Jones <cmjones@cisco.com>

IEEE P802.3cr Isolation (Maintenance #14) Task Force: Jon Lewis <jon\_lewis@dell.com>

IEEE P802.3cs Increased-reach Ethernet optical subscriber access (Super-PON): Claudio DeSanti <cdssdc@google.com>

IEEE P802.3ct 100 Gb/s and 400 Gb/s over DWDM systems: John D'Ambrosia <jdambrosia@ieee.org>

IEEE P802.3cu 100 Gb/s and 400 Gb/s over SMF at 100 Gb/s per Wavelength: Mark Nowell <mnowell@cisco.com>

IEEE P802.3cv Power over Ethernet (Maintenance #15) Task Force (acting): Chad Jones <cmjones@cisco.com>

## **IEEE 802.3 Study Group chairs**

IEEE 802.3 Greater than 10 Gb/s Automotive Ethernet Electrical PHYs: Steve Carlson <scarlson@ieee.org>

IEEE 802.3 Multi Gigabit Automotive PHY Optical Study Group (acting): Bob Grow <bob.grow@ieee.org>

IEEE 802.3 Improving PTP Timestamping Accuracy on Ethernet Interfaces Study Group (acting): Steve Gorshe <steve.gorshe@microchip.com>

IEEE 802.3 10 Mb/s Single Pair Ethernet Multidrop Enhancements Study Group (acting): Chad Jones <cmjones@cisco.com>

# Working Group information

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IEEE 802.3 Web site (presentations, minutes, reflector subscription, etc.)

<http://www.ieee802.org/3>

Interim TF and SG meeting details posted on web site

<http://www.ieee802.org/3/interims/index.html>

Announced so far, please check above URL for up to date information

IEEE P802.3cg interim meeting

14<sup>th</sup> and 15<sup>th</sup> August 2019, Milwaukee, WI, USA

IEEE P802.3cn contingent teleconference interim

20<sup>th</sup> August 2019

IEEE 802.3 Interim meeting series

9<sup>th</sup> through 13<sup>th</sup> September 2019, Indianapolis, IN, USA

IEEE 802 plenary meeting series

11<sup>th</sup> through 14<sup>th</sup> November 2019, Waikoloa Village, HI, USA