

# IEEE 802.3 Working Group March 2018 Plenary Week Report

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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/mar18/0318\\_maint\\_close\\_report.pdf](http://www.ieee802.org/3/minutes/mar18/0318_maint_close_report.pdf)

## Activities

Review of outstanding Maintenance Requests

IEEE P802.3 (IEEE 802.3cj) Standard for Ethernet Maintenance #12 (revision)

Completed 1st Sponsor recirculation ballot comment resolution

Responded to 49 comments

Progress to 2nd Sponsor recirculation ballot

Obtained conditional approval to submit to RevCom

Next meeting is an April 2018 contingent interim teleconference

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

## Web page

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

# IEEE P802.3bt DTE Power via MDI over 4-Pair Task Force

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Task Force closing report

[http://www.ieee802.org/3/minutes/mar18/0318\\_bt\\_close\\_report.pdf](http://www.ieee802.org/3/minutes/mar18/0318_bt_close_report.pdf)

Progress

Heard 7 presentations

3<sup>rd</sup> Sponsor recirculation ballot comment resolution

Responded to 118 comments

Next steps

Conduct 4<sup>th</sup> Sponsor recirculation ballot of draft IEEE P802.3bt/D3.4

Next meeting at May 2018 interim meeting series

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

Web page:

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

# IEEE P802.3ca 25 Gb/s, 50 Gb/s, and 100 Gb/s Ethernet Passive Optical Networks Task Force

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Task Force closing report

[http://www.ieee802.org/3/minutes/mar18/0318\\_ca\\_close\\_report.pdf](http://www.ieee802.org/3/minutes/mar18/0318_ca_close_report.pdf)

## Progress

Heard 19 presentations,

Major items discussed: downstream wavelengths, receiver sensitivity, transmit power, FEC, 2x25Gbps versus 1x50Gbps

Passed 7 technical motions

Editor instructed to generate D1.0

## Next steps

Work towards technically complete draft for working group ballot

Next meeting at May 2018 interim meeting series

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

Web page:

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

# IEEE P802.3cb 2.5 Gb/s and 5 Gb/s Backplane Task Force

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Task Force closing report

[http://www.ieee802.org/3/minutes/mar18/0318\\_cb\\_close\\_report.pdf](http://www.ieee802.org/3/minutes/mar18/0318_cb_close_report.pdf)

Progress

Completion of 3<sup>rd</sup> Sponsor recirculation ballot comment resolution

Completed responses to 42 comments

Next steps

Conduct 4<sup>th</sup> Sponsor recirculation ballot of draft IEEE P802.3cb/D3.4

Next meeting at May 2018 interim meeting series

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

Web page:

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

# IEEE P802.3cd 50 Gb/s, 100 Gb/s and 200 Gb/s Ethernet Task Force

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Task Force closing report

[http://www.ieee802.org/3/minutes/mar18/0318\\_cd\\_close\\_report.pdf](http://www.ieee802.org/3/minutes/mar18/0318_cd_close_report.pdf)

Progress

Heard 12 technical contributions

1<sup>st</sup> Sponsor recirculation ballot comment resolution

Completed responses to 106 comments

Big Ticket Item progress

TDECQ: Change adopted to methodology

Effective Return Loss: Multiple refinements on initial spec implementation

Next steps

Conduct 2<sup>nd</sup> Sponsor recirculation ballot of draft IEEE P802.3cb/D3.2

Next meeting at May 2018 interim meeting series

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

Web page:

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

# IEEE P802.3.2 (IEEE 802.3cf) YANG Data Model Definitions Task Force

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Task Force closing report

[http://www.ieee802.org/3/minutes/mar18/0318\\_cf\\_close\\_report.pdf](http://www.ieee802.org/3/minutes/mar18/0318_cf_close_report.pdf)

Progress

Initial Working Group ballot comment resolution

Completed responses to 206 comments

Next steps

Conduct 1<sup>st</sup> Working Group recirculation ballot of draft IEEE 802.3cf/D2.1

Next meeting at May 2018 interim meeting series

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

Web page:

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

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

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Task Force closing report

[http://www.ieee802.org/3/minutes/mar18/0318\\_cg\\_close\\_report.pdf](http://www.ieee802.org/3/minutes/mar18/0318_cg_close_report.pdf)

Progress

IEEE P802.3cg D1.1 Task Force review comment resolution

Completed responses to 193 comments

Major items discussed, decisions made and actions

Adopted initial draft of mixing segment specification

Adopted MDI fault tolerance spec (related to powering)

Confirmed objectives, PAR and CSD modifications in conjunction with the IEEE 802.3 10 Mb/s Backplane Ethernet Study Group

Next steps

Conduct Task Force review on IEEE P802.3cg/D1.2

Next meeting at May 2018 interim meeting series

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/mar18/0318\\_ch\\_close\\_report.pdf](http://www.ieee802.org/3/minutes/mar18/0318_ch_close_report.pdf)

## Progress

Presentations on link segment

Proposed environmental baseline text

Additional EMC data on automotive wiring harness

PoDL and possible PHY power level

## Next steps

Continue work on link segment performance

First PHY architecture proposals

## Next meeting at May 2018 interim meeting series

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

## Web page:

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

# IEEE 802.3 Beyond 10 km Optical PHYs for 50Gb/s, 100 Gb/s, 200 Gb/s, and 400Gb/s Ethernet Study Group

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## Study Group closing report

[http://www.ieee802.org/3/minutes/mar18/0318\\_b10k\\_close\\_report.pdf](http://www.ieee802.org/3/minutes/mar18/0318_b10k_close_report.pdf)

## Progress

Heard 4 technical presentations

Approved Objectives

Updated 50GbE PHY Objective, adopted 100 Gb/s and 200 Gb/s Objectives

Terminology for Study Group use

## Next steps

Continue to work towards a complete PAR, CSD and set of objectives

## Next meeting at May 2018 interim meeting series

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

## Web page:

<http://www.ieee802.org/3/B10K/index.html>

# IEEE 802.3 10 Mb/s Backplane Ethernet Study Group

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Study Group closing report

[http://www.ieee802.org/3/minutes/mar18/0318\\_10M\\_BP\\_close\\_report.pdf](http://www.ieee802.org/3/minutes/mar18/0318_10M_BP_close_report.pdf)

Progress

IEEE P802.3cg PAR and CSD modifications approved by IEEE 802 EC

IEEE P802.3cg PAR modification request on April 2018 NesCom agenda

Study Group re-chartered until next plenary

Backup if PAR not approved by IEEE-SA Standards Board

Work of IEEE 802.3 10 Mb/s Backplane Ethernet Study Group complete

Assuming PAR approval by IEEE-SA Standards Board

If not IEEE 802.3 10 Mb/s Backplane Ethernet Study Group will meet in May

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

Web page:

<http://www.ieee802.org/3/10BPE/index.html>

# IEEE 802.3 100 Gb/s per Lane Electrical Study Group

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Study Group closing report

[http://www.ieee802.org/3/minutes/mar18/0318\\_100G\\_elec\\_close\\_report.pdf](http://www.ieee802.org/3/minutes/mar18/0318_100G_elec_close_report.pdf)

Progress

IEEE P802.3ck PAR and CSD approved by IEEE 802 Executive Committee

IEEE P802.3ck PAR on April 2018 NesCom agenda

Study Group re-chartered until next plenary

Backup if PAR not approved by IEEE-SA Standards Board

First IEEE P802.3ck meeting planned for May 2018

Assuming PAR approval by IEEE-SA Standards Board

If not the IEEE 802.3 100 Gb/s per Lane Electrical Study Group will meet in May

Full details at:

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

Web page:

<http://www.ieee802.org/3/100GEL/index.html>

# IEEE 802.3 Next-generation 200 Gb/s and 400 Gb/s MMF PHYs Study Group

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Study Group closing report

[http://www.ieee802.org/3/minutes/mar18/0318\\_NG\\_MMF\\_close\\_report.pdf](http://www.ieee802.org/3/minutes/mar18/0318_NG_MMF_close_report.pdf)

Progress

IEEE P802.3cm PAR and CSD approved by IEEE 802 Executive Committee

IEEE P802.3cm PAR on April 2018 NesCom agenda

Study Group re-chartered until next plenary

Backup if PAR not approved by IEEE-SA Standards Board

First IEEE P802.3cm meeting planned for May 2018

Assuming PAR approval by IEEE-SA Standards Board

If not the IEEE 802.3 Next-generation 200 Gb/s and 400 Gb/s MMF PHYs Study Group will meet in May

Full details at:

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

Web page:

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

# IEEE 802.3 New Ethernet Applications (NEA) Ad Hoc

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Closing report

[http://www.ieee802.org/3/minutes/mar18/0318\\_NEA\\_close\\_report.pdf](http://www.ieee802.org/3/minutes/mar18/0318_NEA_close_report.pdf)

New Efforts Requested during week

Switch Latency

Presentation on Industrial Networking Requirements

Super-PON CFI Preparations

Targeting July 2018 CFI

New Activity

Resolving PHY Data Delays for PTP Timestamping

Next meeting at May 2018 interim meeting series

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

# Bidirectional 10Gb/s and 25Gb/s Optical Access PHYs Call for Interest

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Bidirectional 10Gb/s and 25Gb/s Optical Access PHYs CFI closing report

[http://www.ieee802.org/3/minutes/mar18/0318\\_bidi\\_close\\_report.pdf](http://www.ieee802.org/3/minutes/mar18/0318_bidi_close_report.pdf)

Study Group formation approved

IEEE 802.3 Bidirectional 10Gb/s and 25Gb/s Optical Access PHYs Study Group

The scope of the Study Group is to develop Project Authorization Request (PAR) and Criteria for Standards Development (CSD) responses for Bidirectional 10Gb/s and 25Gb/s Optical Access PHYs

First Study Group meeting at May 2018 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 P802.3bt DTE Power via MDI over 4-Pair: Chad Jones <cmjones@cisco.com>

IEEE P802.3ca 25 Gb/s, 50 Gb/s, and 100 Gb/s EPON: Curtis Knittle <c.knittle@cablelabs.com>

IEEE P802.3cb 2.5 Gb/s and 5 Gb/s Backplane Cables: Dan Smith <daniel.f.smith@seagate.com>

IEEE P802.3cd 50 Gb/s, 100 Gb/s, and 200 Gb/s Ethernet: Mark Nowell <mnowell@cisco.com>

IEEE 802.3.2 (IEEE 802.3cf) YANG Data Model: Yan Zhuang <zhuangyan.zhuang@huawei.com>

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

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

IEEE 802.3ck 100 Gb/s, 200 Gb/s, and 400 Gb/s electrical interfaces based on 100 Gb/s signaling:  
Elizabeth Kochuparambil (acting) <edonnay@cisco.com>

IEEE 802.3cm 400 Gb/s over Multimode Fiber: Robert Lingle (acting) <rlingle@ofsoptics.com>

## **IEEE 802.3 Study Group chairs**

IEEE 802.3 Beyond 10km Optical PHYs: John D'Ambrosia <jdambrosia@ieee.org>

IEEE 802.3 Bidirectional 10Gb/s and 25Gb/s Optical Access PHYs Study Group (acting):  
Frank Effenberger <frank.effenberger@huawei.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 P802.3 (IEEE 802.3cj) contingent teleconference interim meeting

6<sup>th</sup> April 2018

IEEE P802.3 (IEEE 802.3cj) contingent teleconference interim meeting

26<sup>th</sup> April 2018

IEEE 802.3 Interim meeting series

21<sup>st</sup> through 25<sup>th</sup> May 2018, Pittsburgh, PA, USA

IEEE 802 plenary meeting series

9<sup>th</sup> through 12<sup>th</sup> July 2018, San Diego, CA, USA